## Virginia Marine Resources Commission

### Permit Compliance and

Inspection Program



Final Report CZM Grant No. NA570Z0561-01 Task 13

October 1996



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## **Table of Contents**

List of Figures	Page i
List of Tables.	Page ii
Introduction	Page 1
Permit Compliance Program Overview.	Page 4
Permit Compliance Survey Results.	Page 6
Conclusion.	Page 17
Attachments	Page 20

## **List of Figures**

Figure 1.	Tidewater Virginia Localities	Page 2
Figure 2.	Inspections of VMRC permits for the Grant year following notification that projects had been started.	Page 7
Figure 3.	Inspections since 1993 of all VMRC permits following notification that projects had been started.	Page 8
Figure 4.	Inspections for randomly selected projects including wetlands and VMRC subaqueous permits issued in 1989.	Page 12
Figure 5.	Inspections for randomly selected projects including wetlands and VMRC subaqueous permits issued in 1990.	Page 13
Figure 6.	Inspections for randomly selected projects including wetlands and VMRC subaqueous permits issued in 1991.	Page 14
Figure 7.	Inspections for randomly selected projects including wetlands and VMRC subaqueous permits issued in 1992.	Page 15
Figure 8.	Inspections for randomly selected wetlands permits issued in 1993.	Page 16
Figure 9.	Inspections for randomly selected wetlands permits issued in 1994.	Page 17

## **List of Tables**

Table 1.	Number and Jurisdictional type of project selected for the compliance survey in each locality.	Page 10
Table 2.	Level of compliance for constructed projects.	Page 11
Table 3.	Provides Wetland Board Compliance monitoring in each locality.	Page 19

#### Introduction

The Virginia Marine Resources Commission ("Commission" or "VMRC"), as provided in Chapter 12 of Title 28.2 of the Code of Virginia, is the State agency responsible for issuing permits for encroachments in, on, or over State-owned submerged lands throughout the Commonwealth. The Commission has possessed this regulatory authority since 1962, and currently processes approximately 2,000 applications, and issues nearly 500 permits annually. Virginia is only one of the six "low water states" and as such maintains ownership of all submerged lands channelward of the mean low water mark in tidal waters, and regulatory authority channelward of the ordinary high water mark on most naturally occurring nontidal perennial streams, creeks and rivers.

In addition to managing the Commonwealth's 1,472,000 acres of submerged lands, the Commission also regulates the use or development of tidal wetlands and coastal primary sand dunes pursuant to the provisions of Chapters 13 and 14 of Title 28.2 of the Code of Virginia. Local governments in Tidewater Virginia are provided the option of adopting and locally administering the wetlands and dune zoning ordinances. VMRC, however maintains original jurisdiction in localities which have not adopted the ordinances. Even if locally adopted and implemented, the Commission retains certain oversight responsibilities and reviews all decisions made by those local wetlands boards. Figure 1. shows the localities within Tidewater Virginia and the 35 that have adopted the wetlands ordinance and the six counties out of eight that have adopted the dunes ordinance.

The regulatory activities conducted by the Commission and the 35 local wetlands boards are integral components of Virginia's approved Coastal Zone Management Program. The permit review processes used by the Commission and these local wetlands boards ensures that necessary economic development is permitted in a manner which minimizes adverse impacts to the valuable natural resources within our coastal zone.

Permit compliance is a mandatory component of any effective regulatory program. As such, it is essential that the terms and conditions contained in the permit documents be followed, if the full benefits of the regulatory program are to be realized. Without such permit compliance, the regulatory process breaks down and serves only as an increased bureaucracy.

In order to evaluate compliance with permits issued by VMRC and local wetlands boards a survey, funded in part by CRMP grant # NA90AA-H-CZ96, was conducted in 1991. The compliance survey was designed to investigate and gauge the effectiveness of the various compliance monitoring programs currently utilized by VMRC and the local wetlands boards. The survey was intended to both identify existing compliance

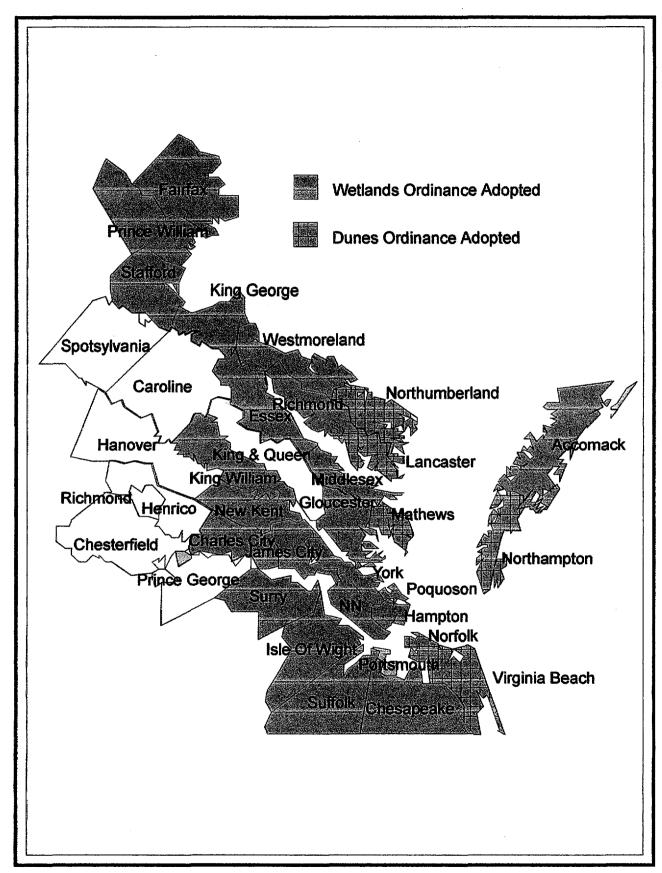


Figure 1. Tidewater Virginia Localities

shortcomings and to ascertain effective compliance monitoring techniques, in order to enable VMRC to develop concise recommendations to enhance compliance monitoring programs.

The purpose of this grant project was to continue the implementation of recommendations of the 1991 Permit Compliance and Inspection Program report and continue a standardized permit compliance program for those permits issued by the Commission within the Coastal Zone. In addition commission staff assessed permit compliance for wetland projects authorized in 1994. The latter was designed as a follow up to the previous compliance inspections conducted for projects permitted in 1989, 1990, 1991, 1992, and 1993.

This document is intended to serve as the final report for Task 13 of Grant No. NA570Z0561-01 and provides an overview of the steps taken to continue the compliance monitoring program and a review of the compliance data gathered during the grant year. Compliance data gathered during the previous years is also included.

#### Permit Compliance Program Overview

In the December 1991 Habitat Management Division - Special Report (Attachment A), five recommendations were made for VMRC to enhance permit compliance efforts.

- 1. Require detailed drawings for all projects requiring a VMRC permit.
- 2. Require accurate benchmarks or reference points on the plan view drawing(s).
- 3. Require Engineers to take an adequate number of slides during the initial site visit to illustrate pre-construction conditions.
- Require Engineers to conduct post-construction inspections at all sites permitted by VMRC.
- 5. Incorporate the data collected from the post-construction inspections into the Habitat Management Division's computer data base.

In 1993 with funding provided by CZM Grant No NA27020312-1, these recommendations were incorporated into the Commission compliance monitoring program through several mechanisms. The Joint Permit Application (Attachment B) was amended to reflect the need for more detailed drawings with accurate benchmarks. New conditions were incorporated into Commission permits requiring that a permit placard (Attachment C) be posted at the project site and procedures were established for the Commission to receive notice when project construction is started. The latter was accomplished through the use of a self-addressed stamped card (Attachment D) which is returned to the Commission, by the permittee. Special conditions related to permit compliance have been added to all permits issued by VMRC. Examples of these can be found in the attached sample permit (Attachment E).

Furthermore, procedures have currently been established within the Habitat Management Division to require that the Division's Environmental Engineers inspect all permitted projects. These procedures require that photos be taken of the site before and after construction, and that the final inspection be documented throughout the use of a Project Compliance Assessment Report (Attachment F).

In addition, a compliance data base has been established to track compliance monitoring efforts and results. The data for projects permitted by VMRC can be found in (Attachment G). Prior to the 1994 grant year the compliance data base had been separate from the Habitat Management Division's permit tracking data. The

compliance data for projects permitted by VMRC is now incorporated into the new Habitat Management Division permit tracking system. This system is part of the Agency's Local Area Network (LAN) and operates in a Windowed format using Microsoft Access. The compliance data is entered and maintained by the Division's Program Support Technician supported by the grant and the system is accessible by all Division Staff.

#### Permit Compliance Survey Results

During the grant year (October 1, 1995 through September 30, 1996) a total of 273 compliance inspections were conducted by VMRC Habitat Management Division Staff. This involved 187 inspections of projects permitted by VMRC and 86 inspections permitted by local wetlands boards. The inspections for projects permitted by VMRC followed receipt of the self-addressed stamped card indicating the project had been started. In addition new procedures were established to ensure a response on all permitted projects (Attachment H). Prior to permit expiration, letters are sent to all permittees who have not returned the self-addressed stamped card. The letter requests that they notify us of the project status. If the permittee reports the project is complete, the project is inspected. If no response is received from our letter the site is inspected upon permit expiration. The wetland projects were randomly selected from projects permitted in 1994 in order to gauge compliance with wetland board permits and to add the data to that collected for projects permitted in 1989, 1990, 1991, 1992 and 1993.

Previously, wetland projects and VMRC permits were randomly selected for compliance inspections and both permit types were reported together in the previous data. However, since initiation of the Habitat Management Division program to inspect all VMRC permits in 1994 mostly wetland permits are reported on as a result of the random selection process.

Compliance results for all inspections are grouped into the following five categories:

- 1. Project not constructed.
- 2. In compliance with the permit document.
- 3. Moderately in compliance (the average additional encroachment did not exceed 6 inches greater than the permitted alignment and had length and square foot measurements which were no more than 10% greater than authorized).
- Out of compliance (the average additional encroachment exceeded 6 inches and the length square foot measurements were more than 10% greater than authorized).
- 5. Unable to determine compliance.

Compliance rates for the projects permitted by VMRC and inspected during the grant year are shown in Figure 2. Cumulative totals for all VMRC permits inspected since initiation of the Habitat Management Division compliance program are shown in Figure 3. These results show that compliance rates for VMRC permits issued since 1993 have remained relatively stable. While the overall data shows that 80% of the

# **VMRC** Permits

October 1, 1995 through September 30, 1996

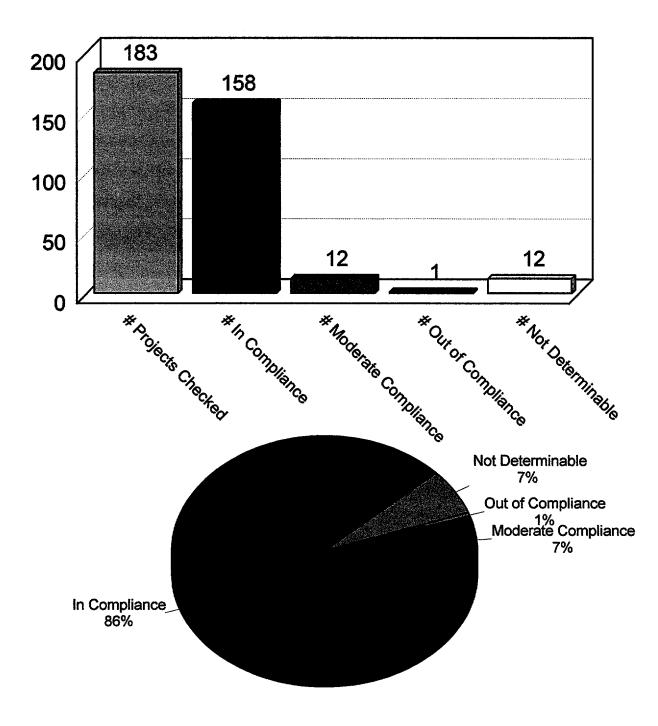


Figure 2. Inspections of VMRC permits for the Grant year following notification that projects had been started.

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## **All VMRC Permits**

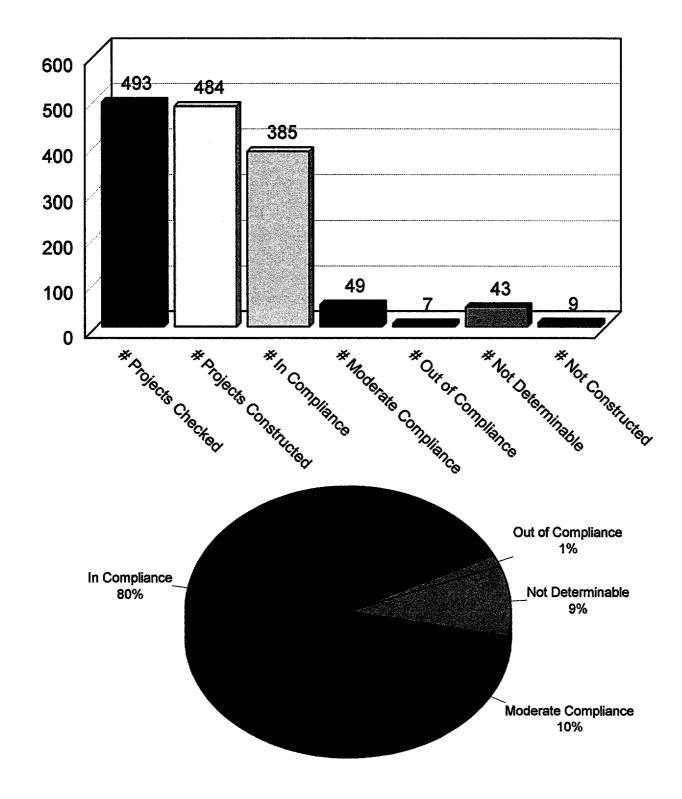


Figure 3. Inspections since 1993 of all VMRC permits following notification that projects had been started.

projects are found to be in compliance, only 1% were found to be out of compliance. The remainder were either in moderate compliance or the compliance could not be determined. Although compliance could not be determined for 9% of the projects, inspections in these cases did not indicate there were any permit violations. Most of these cases involved dredging projects, underground pipelines, or situations where actual measurements could not be taken.

Table 1. reflects the number of projects reviewed in each locality for permits issued since 1989. Thirty-three localities were represented over the five year period. Five hundred and thirty of the projects required a wetlands permit, 82 a VMRC subaqueous permit and 103 required both. This represents a total review of 715 projects, which are summarized in Table 2.

The yearly results for 1989, 1990, 1991, 1992, 1993 and 1994 are shown in Figures 4,5,6,7, and 8 respectively. The compliance rates for all permits (VMRC and Wetlands) issued since 1989 have shown a significant improvement. On average there has been a 25% increase in the projects constructed which were deemed to be in compliance. The average for projects deemed to be in compliance is 61% since 1989. In addition, the numbers for projects considered in moderate compliance are holding around 12%. The projects found to be out of compliance rose 3 percentage points, but still holds on average at only 3%, and the projects where compliance is not determinable have dropped 10% on average.

Table 1
Number and jurisdictional type of project selected for the compliance survey in each locality.

Locality	Project # Year	Project Type
	89 90 91 92 93 <i>94</i>	
Accomack	15115 5 6 5	5S,35W,6B*
Charles City	0 2 1 3 1 0	2S,3W,2B
Chesapeake	4 5 3 4 5 5	2S,23W,1B
Chesterfield	0 1 0 2 1 0	OS,1W,3B
Essex	1 43321	6S,5W,2B
Fairfax	1 11200	3S,2W,0B
Gloucester	3 6 8 2 2 4	1S,19W,5B
Hampton	5 3 8 3 6 9	5S,22W,0B
Hanover	0 10000	1S,0W,0B
Isle of Wight	0 0 2 0 2 4	2S,6W,0B
James City	3 3 1 3 1 1	0S,11W,1B
King and Queen	1 0 3 1 0 0	1S,3W,1B
King George	1 2 2 0 1 3	2S,7W,0B
King William	1 1 1 0 1 1	os,3W,2B
Lancaster	9 15 9 9 9 7	3S,49W,6B
Mathews	3 3 9 8 2 3	o\$,20W,8B
Middlesex	8 7 10 17 8 5	4S,39W,12B
New Kent	0 1 0 1 3 1	2S,4W,0B
Newport News	0 4 5 6 1 2	8S,8W,2B
Norfolk	8 8 7 13 4 3	7S,32W,4B
Northampton	1 3 1 2 2 2	15,9W,1B
Northumberland	19 148 196 6	2S,57W,7B
Poquoson	1 2 4 8 3 3	1S,16W,1B
Portsmouth	0 0 5 0 1 0	1S,3W,1B
Prince William	1 1 0 1 0 1	1S,2W,1B
Richmond Co	0 1 3 2 1 2	2S,3W,4B
Stafford	3 4 3 3 2 3	3S,11W,5B
Suffolk	1 0 1 3 3 0	2S,5W,1B
Surry	0 0 1 0 1 0	1S,1W,0B
Virginia Beach	20 22 1511 7 10	9S,64W,14B
West Point	0 0 1 0 0 0	1S,0W,0B
Westmoreland	7 5 14 14 10 6	2S,41W,12B
York	4 1 2 4 2 6	1S,17W,1B
Totals		
33 Localities	120 Projects (89)	82 Sub.
	131 Projects (90)	530 Wet.
	136 Projects (91)	103 Both
	149 Projects (92)	
4	93 Projects (93)	
7	86 Projects (94)	

Table 2
Level of compliance for constructed projects.

	1989	1990	1991	1992	1993	1994
	Total ·	Total	Total	Total	Total	Total
# of Projects Reviewed	120	131	136	149	93	86
% of Projects Reviewed	t√a	r√a	t√a	t√a	n/a	n/a
# of Projects Constructed	98	109	113	122	85	82
% of Projects Reviewed	82%	83%	83%	82%	91%	95%
# in Compliance	50	51	54	87	69	63
% of Projects Constructed	51%	47%	48%	71%	81%	77%
# in Moderate Compliance	14	21	23	22	10	11
% of Projects Constructed	14%	19%	20%	18%	12%	13%
# Out of Compliance	8	4	7	1	2	4
% of Projects Constructed	8%	4%	<b>6</b> %	1%	2%	5%
# Compliance Indeterminable	26	33	29	12	4	4
% of Projects Constructed	27%	30%	26%	10%	5%	5%

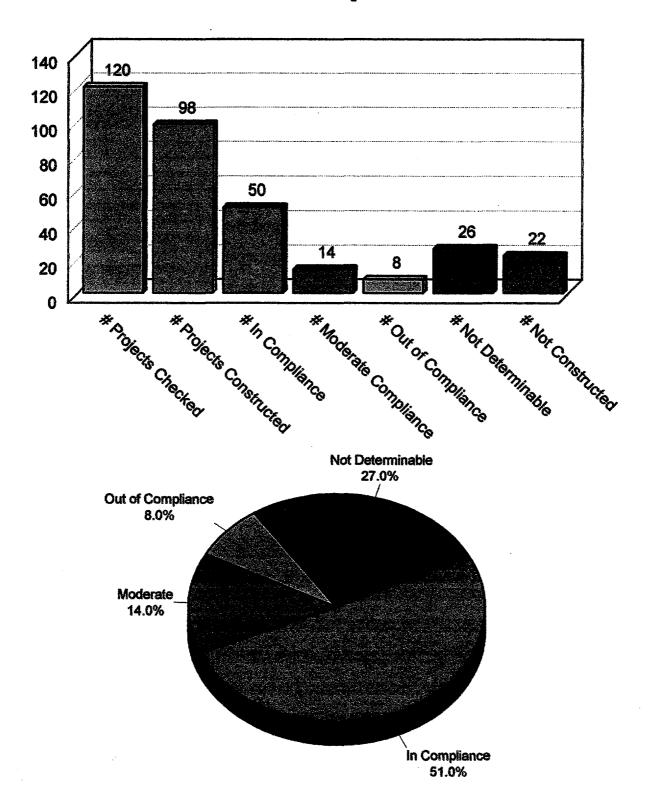


Figure 4. Inspections for randomly selected projects including wetlands and VMRC subaqueous permits issued in 1989.

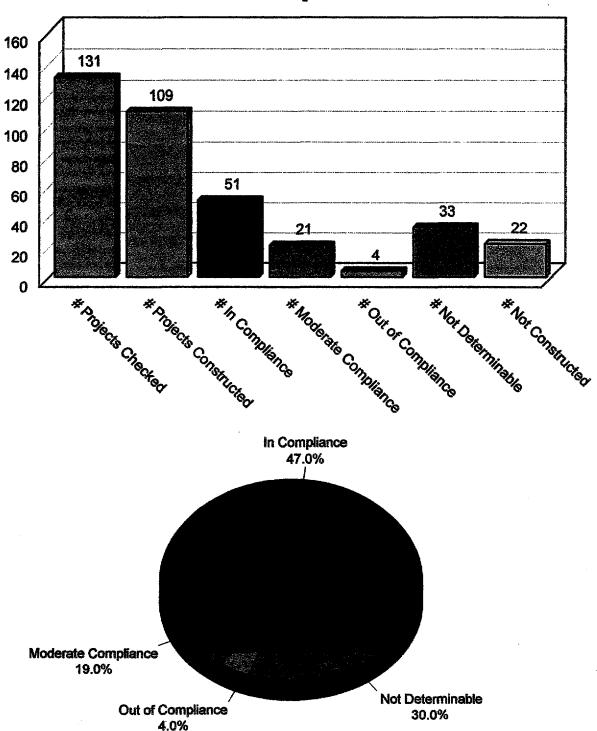


Figure 5. Inspections for randomly selected projects including wetlands and VMRC subaqueous permits issued in 1990.

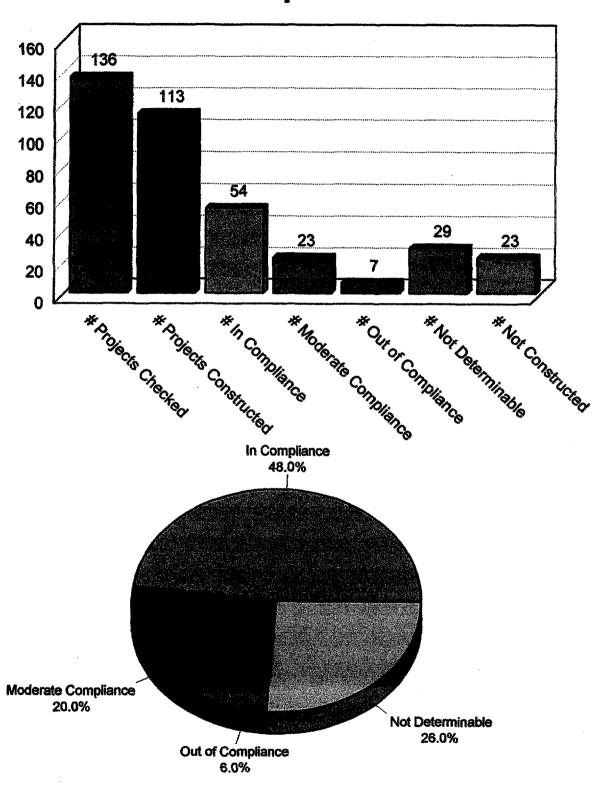


Figure 6. Inspections for randomly selected projects including wetlands and VMRC subaqueous permits issued in 1991.

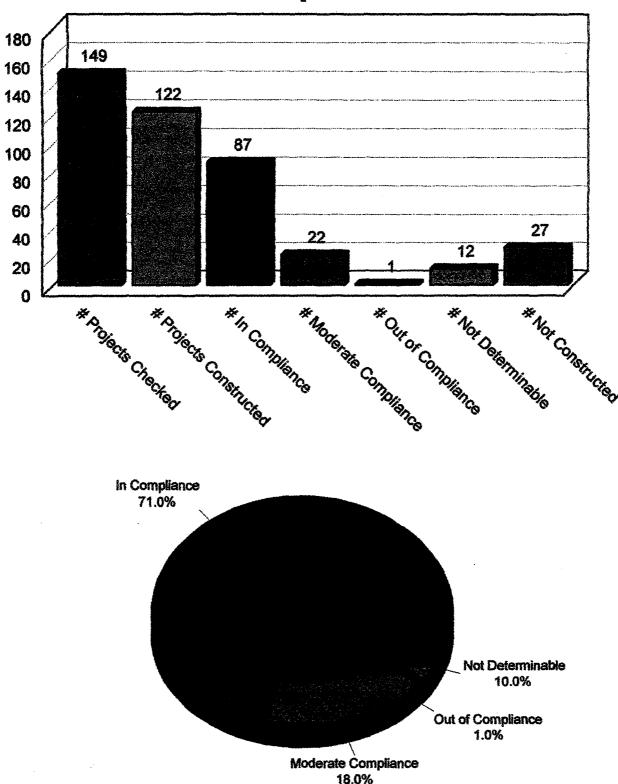
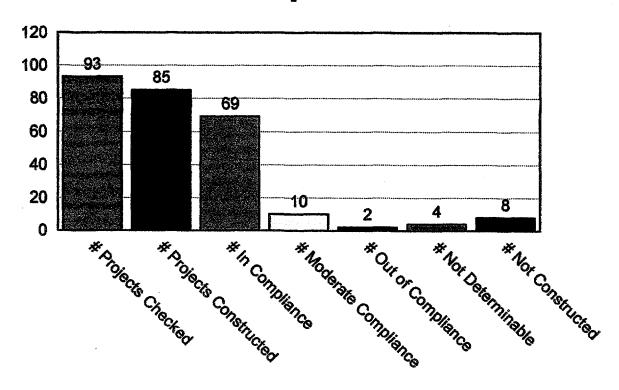


Figure 7. Inspections for randomly selected projects including wetlands and VMRC subaqueous permits issued in 1992.



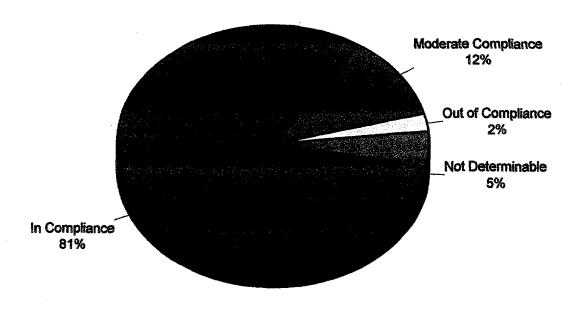
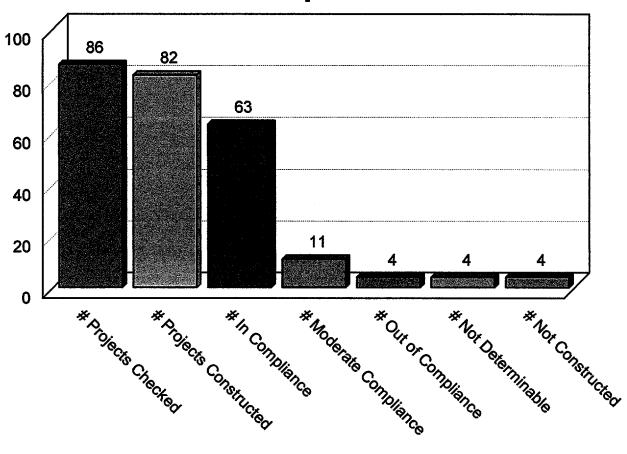


Figure 8. inspections for randomly selected wetland permits issued in 1993.



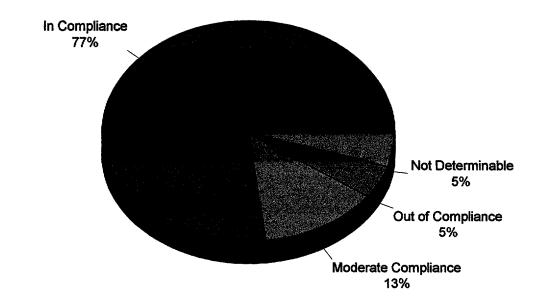


Figure 9. Inspections for randomly selected wetlands permits issued in 1994.

#### **Conclusion**

Based on our review of the data collected and considering the improvements in observed compliance rates, the program appears to be working. Our efforts, must continue, however, if we are to ever approach the ultimate goal of 100% compliance on all permitted projects. In order to achieve this goal we must continue our current monitoring program. Furthermore, we believe there are additional areas where we must focus our attention.

At the local level, staffing and financial constraints continue to deter many wetland boards from implementing a formal wetlands compliance program. Table 3. provides an overview of compliance monitoring programs by locality. This table is based on a VMRC staff evaluation of local programs rather than any comprehensive survey. Therefore, some local programs could characterize their compliance efforts differently. The table does, however, provide an indication of the range of effort at the local level and provides, in conjunction with our compliance surveys, information necessary to focus attention in areas where assistance may be needed the most. Although we plan to continue inspections in all localities, we will attempt to provide additional assistance in those areas which only have informal procedures for compliance monitoring and which conduct very few compliance checks.

For projects requiring permits from the Commission, the compliance program has led to better project drawings and the use of accurate benchmarks for improved project monitoring. On the other hand, it has allowed us to identify those projects that present a monitoring challenge. For example, compliance in dredging projects have proven difficult to monitor. It is difficult to require the average homeowner to incur the expense of a post dredge survey for a small dredging project under his pier slip. As a result, special permit conditions have been developed that require pre-dredging conferences and encourage post dredging surveys on large dredging projects. Even with the special conditions, however this continues to be an area where we must continue to focus our attention.

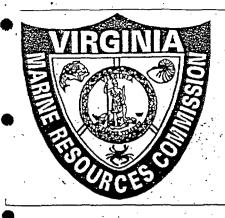
To date the compliance monitoring program has allowed evaluation of the effectiveness of our permit and monitoring procedures. As such, the monitoring program can only improve our resource management responsibilities. Therefore, permit compliance initiatives must continue to be a long term effort if we are to ensure proper construction techniques and the protection of our valuable natural resources. This effort, combined with the improvement of our permit tracking database and the development of GIS capabilities, which we are still working towards, is necessary if we are to realize the goal of making cumulative impact assessments a part of our wetlands and submerged lands permitting program.

Table 3
Provides Wetland Board Compliance monitoring in each Locality.

Locality	Prog			Project Checked	
	Formal	Informal	all	random	none
Accomack		×		×	
Charles City		×	×		
Chesapeake		×		×	
Еззех				L	×
Fairfax					×
Gloucester	×		×		
Hampton	×		×	L	
Isle of Wight		×	×		
James City	×		×		
King George		<u> </u>		<u> </u>	
King William		×		×	
Lancaster		×		*	
Mathews	x		×		
Middlesex	x			<u> </u>	
New Kent		x		<u> </u>	
Newport News	×			×	
Norfolk	x		, x		
Northampton		×		x	
Northumberland		x		×	
Poquoson	x		. х		
Portsmouth	 				x
Prince William		×		x	
Richmond Co	x		×		
Stafford		×		x	
Suffolk		×		<u> </u>	
Surry		x		×	
Virginia Beach	×	<u></u>	×		
West Point					<u> </u>
Westmoreland	×		×		
York	×		×		

19

Attachment A



Habitat Management Division - Special Report December 1991

#### Permit Compliance and Inspection Program: Findings and Guidance Document

Robert C. Neikirk

#### INTRODUCTION

The Virginia Marine Resources Commission ("the Commission" or "VMRC"), in conformance with Section 62.1-3 of the Code of Virginia, is the State agency responsible for issuing permits for encroachments in, on, or over State-owned submerged lands throughout the Commonwealth. The Commission has possessed this regulatory authority since 1962. We currently process over 2,000 applications and issue nearly 500 permits annually. Virginia is a "low water state" and assumes jurisdiction of submerged lands channelward of the mean low water mark in tidal waters, and has regulatory authority channelward of the ordinary high water mark on most naturally occurring nontidal perennial streams.

In addition to managing the Commonwealth's submerged lands, the Commission also regulates certain activities in tidal wetlands and coastal primary sand dunes pursuant to Chapters 2.1 and 2.2 of Title 62.1 of the Code of Virginia. Local governments have the option to adopt and administer the ordinance. VMRC asserts original jurisdiction in those Tidewater localities which have not assumed local regulation through the adoption of the model wetlands and dunes ordinances. Even where locally adopted and implemented, the Commission rétains oversight responsibilities for all decisions made by those local wetlands boards.

The regulatory activities conducted by the Commission and the 34 local wetlands boards are integral core components of Virginia's approved Coastal Zone Management Program. The permit review processes used by the Commission and these local wetlands boards ensures that necessary economic development is permitted in a manner which

minimizes adverse impacts to the valuable natural resources within our coastal zone.

Permit compliance is a mandatory component of any effective regulatory program. As such, it is essential that the terms and conditions contained in those permit documents be followed if we are to realize the full benefits of the regulatory program. Without such permit compliance, the regulatory process breaks down and serves only to increase bureaucracy.

In July 1990, Senate Bill 183 became law (Ch. 881 Acts of Assembly 1990). This legislation provided the Commission and local wetlands boards with the authority to issue restoration orders and assess civil charges for violations of the applicable subaqueous, wetlands and sand dune statutes. An ability to accurately determine and monitor compliance with permit requirements is essential if the agency and wetlands boards are to effectively carry out the intent of this legislation.

Unfortunately, Commission staff does not currently have a standardized procedure for monitoring permit compliance. Instead, the staff engineer assigned responsibility for a particular locality will attempt to inspect projects which are under construction or have been recently completed. Quite often such compliance inspections are in response to the receipt of an inquiry or complaint. Additionally, the Commission's marine law enforcement personnel are often aware of permitted projects in their localities and occasionally make site inspections during the performance of their daily duties. In either case, however, only a small percentage of the projects permitted by VMRC are routinely inspected for compliance.

Permits issued by wetlands boards are also not always carefully reviewed for compliance upon project completion. Independent studies conducted by Bradshaw (1990), Hershner et al. (1985) and a survey conducted in conjunction with this project indicate that the extent of permit compliance monitoring by local wetlands boards varies between localities. That effort ranges from rigid compliance monitoring programs to virtually nonexistent monitoring. The level of monitoring is quite often dictated by both the amount of permit activity and available staff time. Therefore, although permit compliance monitoring is an essential element of the regulatory process and a valuable tool for gauging the effectiveness of the permitting system, there is not a standard procedure for such monitoring, and only a few wetlands boards actually utilize a comprehensive compliance program.

This study, funded in part by the National Oceanic and Atmospheric Administration through a grant received under the Coastal Zone Management Act of 1972 as amended, was conducted to study permit compliance, develop a permit compliance and monitoring program for use by the Marine Resources Commission, and to make recommendations to the local wetlands boards, where appropriate, in an effort to help improve their permit compliance efforts.

#### **COMPLIANCE SURVEY**

The compliance survey was designed to investigate and gauge the effectiveness of the various compliance monitoring programs currently utilized by VMRC and local wetlands boards. The survey was intended both to identify existing compliance short-comings and to ascertain effective compliance monitoring techniques in order to develop concise recommendations to enhance compliance monitoring programs.

#### Methods

One hundred and forty (140) projects were randomly selected from a pool of 778 applications submitted in 1989 for permits to use or develop tidal wetlands or to encroach in, on, or over State-owned submerged land. Applications for subaqueous permits outside of the Tidewater region were excluded from the selection pool, as were applications which did not require a permit from either the local wetlands board or VMRC. Also excluded were applications which only requested authorization for private boathouses. Although more recently issued permits could have been used, 1989 permits were selected because it was believed that the majority of these projects would likely have been constructed by the time of the survey.

The 140 selected applications were screened and those applications which were submitted after-the-fact, involved only subaqueous dredging, or had

not yet received a permit due to delays or denial were discarded. After screening, 120 projects remained in the sample group. Prior to conducting the survey we consulted with Mr. Lyle Varnell and other members of the Wetlands Department at the Virginia Institute of Marine Science and determined that a sample size equal to or greater than 120 should provide statistically significant results.

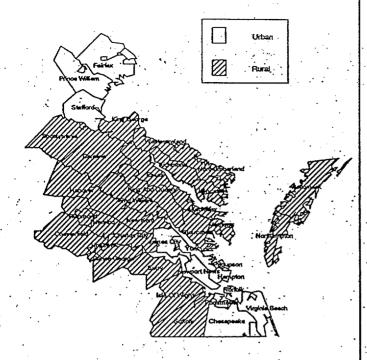
Table 1.

Number and jurisdictional type of project selected for the compliance survey in each locality.

Locality	Rural/Urba	n # of Projects	Type of Project
			• •
Accomack	Rural	15	3S, 7W, 5B
Chesapeake	Urban	4	4W
Essex	Rutal .	1	1B
Fairfax	- Urban .	1	1W
Gloucester	Rural	3	1S, 1W, 1B
Hampton	Urban	<b>5</b>	32, 2W
James City	Urban	3	3W
King George	Rural .	1	1W
King and Queen	Rural	1 .	1W
King William	Rural	1	1B
Lancaster	Rural	9	1S, 5W, 3B
Mathews	Rurai	. 3	3W
Middlesex	Rural	8	1S, 5W, 2B
Norfolk	Urban	· 8	1S, 6W, 1B
Northbampton	Rural	1	1S
Northumberland	Rural	. 19	18W, 1B
Poquoson	Urban .	1	1W
Prince William	Urban	1	1B
Stafford	Urban	3	2S, 1W
Suffolk	Rurai	1	1W
Virginia Beach	Urban	20	14W, 6B
Westmoreland	Rural	7	4W, 3B
York	Urban	4	3W, 1B
	•		
Totals		· •	•
23 Localities	13 Rural	120 Projects	13 Subaqueous
•	10 Urban	Reviewed	81 Wetlands
	•		26 Both

Permit activity per locality is highly variable. For example in 1989 there were no applications received in some localities while in others over 200 were reviewed. Since permit activity varies widely between localities and because the study hoped to draw conclusions on the

Figure 1. Tidewater Virginia



overall effectiveness of permit compliance within the coastal zone, no effort was made to ensure that all localities were represented in the survey. Instead, it was anticipated that the random sample would result in a sample group which more accurately reflected the average permit activity per locality. Therefore, the number of projects reviewed in each locality varies according to the observed permit activity in 1989.

Twenty-three (23) of the 49 Tidewater localities were represented in the sample group. Figure 1 and Table 1 illustrate the Tidewater region and indicate the number of projects reviewed in each locality. Eighty-one (81) of the selected projects required only a wetlands permit, 13 required only a subaqueous permit and 26 impacted both jurisdictions and required subaqueous as well as wetlands permits.

Site inspections were made of all the 120 selected projects to determine the degree of compliance. Results of the compliance inspections were grouped into five categories:

- 1. Project not constructed
- 2. Unable to determine compliance
- 3. In compliance with the permit document
- 4. Moderately in compliance with the permit document.
- 5. Out of compliance with the permit document

Categories 1, 2 and 3 were fairly straightforward and easy to assess. The distinction between those projects considered to be in moderate compliance or out of compliance was more difficult to make and became somewhat subjective. As a rule, however, those projects considered to be moderately in compliance possessed an average additional encroachment which did not exceed 6 inches greater than the permitted alignment, and had length and square foot measurements which were no more than 10% greater than that authorized. Those projects exceeding either of the above thresholds were considered to be out of compliance.

As previously mentioned dredging projects were not included in the survey. These projects were excluded because we believed that it would be difficult to distinguish between man-made and natural post-dredging deviations in depth contours. However, recommendations to monitor compliance for dredging projects are included in the Recommendations section of this

#### Results

The results of the survey are summarized in Table 2. You will note that the survey results were subdivided into rural and urban categories. This was done in an effort to ascertain if there were any demographic differences in compliance levels. For the purpose of this study, rural localities were defined as those having population densities of less than 140 per square mile; urban localities were defined as having population densities greater than 140 per square mile. The figures for population density were obtained from the 1980 census by the U. S. Department of Commerce (Univ. of Virginia, 1987). This breakdown was also patterned after that used by Bradshaw (1990) in her compliance monitoring study.

In addition to providing the raw numbers for the projects determined to be in a particular category, Table 2 also provides the percentage of constructed projects which were categorized by their level of compliance. These percentages are particularly interesting when evaluating the results. Especially noteworthy are the percentages of projects in which compliance could not be determined. Figure 2 further illustrates this information.

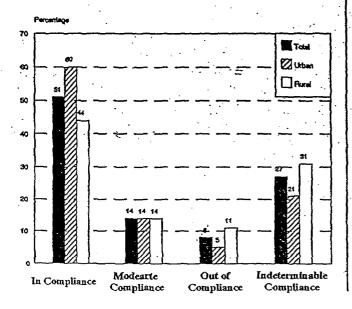
Table 2.

Compiled results of compliance survey conducted for projects permitted in Tidewater during 1989.

	Total	Urban	Rural
# of Projects Reviewed	120	<b>5</b> 0 .	70
% of Projects Reviewed	n/a	42%	58%
# of Projects Constructed	98	43	<i>5</i> 5
% of Projects Reviewed	82%	86%	79%
# in Compliance,	<b>5</b> 0	26	24
% of Constructed Projects	51%	60%	44%
# Moderate Compliance	14	6	8.
% of Constructed Projects	14%	14%	14%
#Out of Compliance	8	2	- <b>6</b> .
% of Constructed Projects,	8%	5%	11%
# Compliance Interminable	26	9 .	17
% of Constructed Projects	27%	21%	31%

Figure 2.

Projects categorized by level of compliance.



Due to the somewhat subjective nature of the data and the low number of samples in some of the subgroups, no statistical tests for significance were attempted. Nevertheless, there appears to be a discernible difference between rural and urban localities in all the categories other than "Moderate Compliance." A clearer disparity exists, however, when the cities of Virginia Beach and Norfolk are factored independently and then compared to all other localities. This is presented in Table 3 and illustrated in Figure 3.

Table 3.

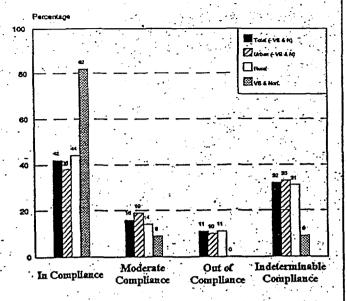
Compiled results of compliance survey conducted for projects permitted in Tidewater during 1989. Va. Beach and Norfolk factored independently.

	•			
	Total	Urban	Rucal	Va. Beach & Norfolk
# Projects Reviewed	93	22	70	28
% Projects Reviewed	77%	18%	58%	23%
# Projects Constructed	76	21	55	22
% Projects Reviewed,	82%	95%	77%	79%
# in Compliance	32	8	24	18
% Constructed Projects	42%	38%	44%	82%
# Moderate Compliance,	12	4	. 8	2
% Constructed Projects	16%	19%	14%	9%
#Out of Compliance	8	2	6.	0
% Constructed Projects	10%	10%	11%	0%
#Compliance Indeterminable	24	7	17	2
% Constructed Projects	32%	33%	31%	9%

Figure 3 clearly illustrates a disparity between the cities of Virginia Beach and Norfolk when compared to all other Tidewater localities. Eighty-two (82) percent of the completed projects reviewed in Virginia Beach and Norfolk were determined to be in compliance, whereas only 42% of all other projects reviewed were categorized as "In Compliance". Also noteworthy is how similar the percentages of the urban and rural localities become once Virginia Beach and Norfolk are factored out.

Figure 3.

Projects categorized by level of compliance. Va. Beach and Norfolk factored indenpendently.



#### Discussion

A cursory review of the survey results is at first very discouraging. Of all the constructed projects reviewed, only 51% were determined to be in compliance. It is important to note, however, that compliance could not be determined for one reason or another at 27% of the sites visited. The fact that compliance could not be determined does not automatically mean that the projects were not built in conformance with the intent of the permit document.

In fact, it is more encouraging to note that the vast majority of the sites visited even where compliance could not be determined, appeared to have been constructed along reasonable alignments and were often the proper length or width or both. This seems to indicate a general intent to comply with permit requirements. This opinion is further supported by the fact that, of all those projects where compliance could be determined, 89% were determined to be in either total or moderate compliance.

The primary problem identified during the survey was the inability to precisely determine compliance at 27% of the sites visited. Many of the permits did not have adequate drawings or benchmarks to ensure compliance. Additionally, many permits contained ambiguous conditions such as, "approximately" or "as close to the bank as possible", which are by their nature virtually unenforce-

able. Compliance determinations are made more difficult when the person inspecting the constructed project was not present during the initial site visit and is therefore unfamiliar with preconstruction conditions. Without the aid of precise benchmarks or other means to pinpoint the alignment of a project, compliance determinations are difficult at best and frequently impossible.

As expected, the projects in localities that require more detailed application drawings and information exhibited a higher percentage of determinable compliance. This is illustrated in Figure 3. Compliance could be determined at 91% of the sites inspected in Virginia Beach and Norfolk. Both of these localities require detailed permit drawings with identifiable benchmarks. Both also regularly conduct post-construction compliance inspections. Additionally, Virginia Beach requires professionally engineered project drawings and further requires the permittees to post performance bonds. Those bonds are not released until post-construction inspections have determined that projects are indeed in compliance with the permit granted by the Board.

Not only was compliance usually determinable at the Virginia Beach and Norfolk projects, but the level of compliance was generally higher as well. This is most likely attributed to the regular post-construction inspections. Ninety (90) percent of the projects where compliance could be determined in Virginia Beach and Norfolk were determined to be in compliance and 10% were in moderate compliance. None of the inspected sites were determined to be out of compliance. By comparison, 15% of the sites visited in other localities, were categorized as out of compliance, where compliance could be determined.

Prior to conducting the study, it was anticipated that there would be a marked difference in compliance levels between urban and rural localities. Initially this appeared to be the case. Once Virginia Beach and Norfolk were factored independently from the other urban localities, however, the data revealed very little difference in compliance levels between urban and rural localities.

It appears that the programs being implemented by Virginia Beach and Norfolk are effective in ensuring permit compliance. As a result, the recommendations for improving compliance draw heavily on the examples provided by these localities.

#### SUMMARY AND RECOMMENDATIONS

The increasing importance of effective compliance monitoring cannot be overstated. Recent legislative changes which authorize VMRC and wetland boards to issue restoration orders and assess civil charges for violations of wetlands, dunes, and subaqueous statutes necessitate compliance programs which can accurately

ascertain whether projects were conducted in conformance with the applicable permit documents. According to the 1988 report by the Year 2020 Panel entitled, "Population Growth and Development in the Chesapeake Bay Watershed to the year 2020", Tidewater will experience continued and rapid population growth over the next two decades. As a result, conflicts between the various competing user groups within the coastal region can only be expected to increase and the issues become more complex. Effective regulation and compliance monitoring will be essential if we are to accommodate and manage this growth while limiting adverse impacts to our finite coastal resources.

When developing compliance monitoring policies it will be important for the welland boards and VMRC to strike an appropriate balance between an effective program and unnecessary bureaucratic red tape. If the policies and procedures are overly complex, time consuming, or expensive, public outcry and resistance is sure to occur. Therefore, the following recommendations are intended to provide the minimum mechanisms necessary to guarantee increased compliance without imposing undue or unrealistic hardships upon the applicant.

## Recommendations to Wetlands Boards to Enhance Compliance Efforts

Wetlands board compliance monitoring efforts vary widely between localities. As a result, some of the following recommendations will not be applicable to all boards. In fact, many of the recommendations were developed from existing wetlands board policies which have proven to be effective. The majority of the recommendations are designed to assist boards in developing an acceptable compliance monitoring program if they don't currently have one. They may also provide suggestions for improvement in those boards with existing compliance procedures.

We acknowledge that numerous localities are already financially constrained and as such may not have the additional funds or personnel necessary to dedicate to an expansion of their wetlands programs. These recommendations were developed with that in mind. Most can be effectively implemented without additional manpower. In fact, once underway, an active compliance monitoring program could actually streamline project reviews and reduce the number of time consuming violations and after-the-fact permit requests that a board now considers.

- 1. Require detailed drawings for all projects requiring a wetlands permit. At a minimum, all of the information contained in the Joint Permit Application drawing checklist should be included in the drawings. Some boards have taken this a step further and require professionally engineered drawings on all projects, while others require such P. E. stamped drawings only on commercial projects or large projects that surpass a certain threshold of impact. These requirements should be clearly established as wetland board policies. An application should not be considered complete until all the required information has been received.
- 2. Special attention should be given to requiring accurate benchmarks and reference points. Accurate distances from fixed reference points or benchmarks to each end and/or angle of the structure or impacted area should be required. A sample plan view drawing containing representative benchmarks is provided in Attachment 1. These distances should be carefully confirmed during the initial site visit since they will ultimately become the final indicators of permit compliance. If benchmarks prove impractical for a particular project, then a condition requiring that the alignment be staked and inspected prior to permit issuance should be imposed as conditions of approval. Some boards also require that the alignment of a bulkhead be inspected and approved after installation, but prior to backfilling, to reduce the environmental impacts and costs of restoration in the event it has been improperly constructed.
- 3. Take an adequate number of photographs or slides during the initial site visit to clearly document pre-construction site conditions. In addition to providing valuable reference material for public hearings, photographic documentation provides clear comparative evidence when determining permit compliance. If video equipment is available, it may prove to be another helpful tool. VCR tapes may even be less expensive and easier to archive in the long run. Photographic documentation is especially valuable if the project will require the grading of the adjacent upland.
- 4. Conduct routine post-construction inspections. Although this may involve additional man-hours, it is the only mechanism available to ensure permit compliance. If the required permit drawings and benchmarks are clear and accurate, the compliance checks can usually be conducted quickly, even by individuals unfamiliar with the project. Some localities might wish to utilize their existing local building or code compliance inspectors to check wetland board permit compliance during their other regular duties. If a post-construction inspection policy is adopted by the board, the inspectors should utilize a compliance inspection worksheet similar

to the one developed by VMRC. This form may be found as Attachment 2. The worksheet will help to ensure that all the necessary information is gathered during the inspection and will provide a quick reference in the event questions regarding the project arise later. Additionally, the worksheet information should be provided to VMRC for incorporation into the compliance data base. The data base will provide a valuable source of information on compliance and the overall effectiveness of individual wetlands boards.

- 5. Utilize only enforceable permit conditions and avoid nebulous statements such as "approximately" and "as close to the bank as possible." Instead, the board should negotiate a specific maximum encroachment, length, or amount of impacts should modifications become necessary to satisfy any concerns. If modifications or revisions are agreed to during the public hearing, revised drawings which accurately reflect the modification, including revised benchmark distances, should be required prior to permit issuance:
- 6. Develop a wetland board placard to be posted by the permittee at all permitted project sites during construction. The placard can serve to aid inspectors and concerned citizens when a project is under construction and problems or questions arise. The placard would provide the name and permit number, making identification and inspection of the project easier. If the locality already requires building permits for all wetland projects, they may wish to avoid duplication and just add the wetland permit number to the placard for easy identification. A sample placard that was developed for VMRC is provided as Attachment 3.
- 7. Performance bonds can be utilized to provide a financial incentive to comply with wetlands permits. Some boards currently require all permittees to post a performance bond. That bond is not released until a post-construction inspection has determined that the project was constructed in conformance with the permit document. Some boards may determine that bonds are not appropriate for all projects due to low permit activity or the fact that additional man-hours are required to process the bonds.

Bonds are a compliance mechanism that are already provided for in the wetlands law. They are routinely used effectively by a few boards to ensure compliance. The bonds are typically set high enough to provide sufficient funds to undertake restoration in the event of noncompliance. Bonds also

provide an additional mechanism for ascertaining when the permitted construction has been completed, since the permittee will typically call for a compliance inspection soon thereafter in order to have his bond released. Whether or not the board develops a performance bond policy for all projects, performance bonds should be considered as a valuable tool to ensure compliance on projects of special concern.

## Recommendations VMRC Should Consider to Enhance Compliance Efforts

Virginia state agencies are also currently operating within strict fiscal constraints. In addition, all agencies continue to explore ways to streamline the permitting process. As a result, it is especially important that any new compliance enhancement policies not result in additional burdens on VMRC's financial resources nor result in unnecessary additional requirements imposed on the applicant. The following recommendations are made with this in mind and are typically policy and procedural type changes rather than an imposition of new requirements on the applicant. Many of the recommendations for VMRC are similar to those noted for wetlands boards.

- 1. Require detailed drawings for all projects requiring a VMRC permit. Staff engineers should utilize the drawings checklist found in the Joint Permit Application in their initial review of each application to determine completeness. Areas where insufficient data was provided should be conveyed to the applicant with the acknowledgement letter. Incomplete applications should not be processed. If adherence to this policy fails to provide the anticipated results, the Commission may wish to consider adopting a regulation that requires professionally engineered drawings be submitted on all commercial projects, or for projects exceeding a certain threshold of impact or value. In the event an engineer can clearly determine from the available information that a VMRC permit will not be required, additional information to satisfy this policy would not be necessary.
- 2. Accurate benchmarks or reference points should be required on the plan view drawing(s) of all projects requiring VMRC authorization. Accurate distances from the benchmark to each end, and angle of the structure or impacted area should be mandatory. These distances should be routinely checked during the initial site visit: If benchmarks are impractical for a certain project, it may be necessary to have the applicant stake the impacted area. If staking is utilized, the engineer should take an adequate number of slides to accurately document the proposed alignment. This may well be the case for dredging proposals.

3. Engineers should take an adequate number of slides during the initial site visit to clearly illustrate pre-construction site conditions. Photographs provide a valuable source of information when reviewing constructed projects for compliance. They are especially valuable when a great deal of time has elapsed since the initial site visit and in those cases where the engineer who originally reviewed the project is no longer available to assist.

Although slides have been used almost exclusively in the past for photographic documentation, it may be useful to utilize video tape for certain types of projects. If video taping is used more frequently, it may be necessary to develop a method to archive the tapes for easy access and retrieval.

4. Engineers should conduct post-construction inspections at all sites permitted by VMRC. The post-construction inspection form found in Attachment 2 should be utilized to ensure that all necessary information is gathered during the visit.

The Commission should consider expanding their existing Memorandum of Agreement with the Department of Game and Inland Fisheries to include the use of VDGIF personnel to conduct the post-construction inspections in the western portion of the State.

Dredging projects should be evaluated by boat. Soundings should be taken to ascertain compliance. Dredging inspections should be conducted as soon after completion as practical to minimize the likelihood that additional impacts from non-dredging related factors could obscure or cloud the dredged dimensions of the area. If available, a chart recorder or a precise recording fathometer would be especially valuable to document the inspection.

In order to receive notification of the completion of permitted activities, VMRC should consider re-instituting the former postcard notification procedure. Should the permittees fail to regularly return the postcards upon completion, which was often the case in the past, the Commission might have to resort to bonding or some other form of deposit. This bond would not be released until after a post-construction inspection had confirmed permit compliance. It might be necessary to seek legislative authorization if the Commission is to require bonds for permits issued under Section 62.1-3.

5. Data collected from the post-construction inspections should be incorporated into the Habitat Management Division's existing computer tracking system. This would provide an easy

method to identify projects which have yet to be inspected, as well as, provide the next logical step in permit tracking. Used in conjunction with the existing project description tracking data, the new data would allow examination of compliance by such attributes as, project type, locality, contractor and agent involved. It would also provide important data on the number of projects which actually get completed. This information would provide an additional valuable tool for monitoring compliance and identifying potential shortcomings in the regulatory program.

VMRC should strongly encourage local wetlands boards to conduct routine post-construction inspections utilizing the compliance worksheet and provide the results of the inspections to VMRC for incorporation into the compliance tracking data base. Projects in localities which opt not to conduct routine post-construction inspections should be inspected by VMRC personnel, if necessary, to obtain the compliance data.

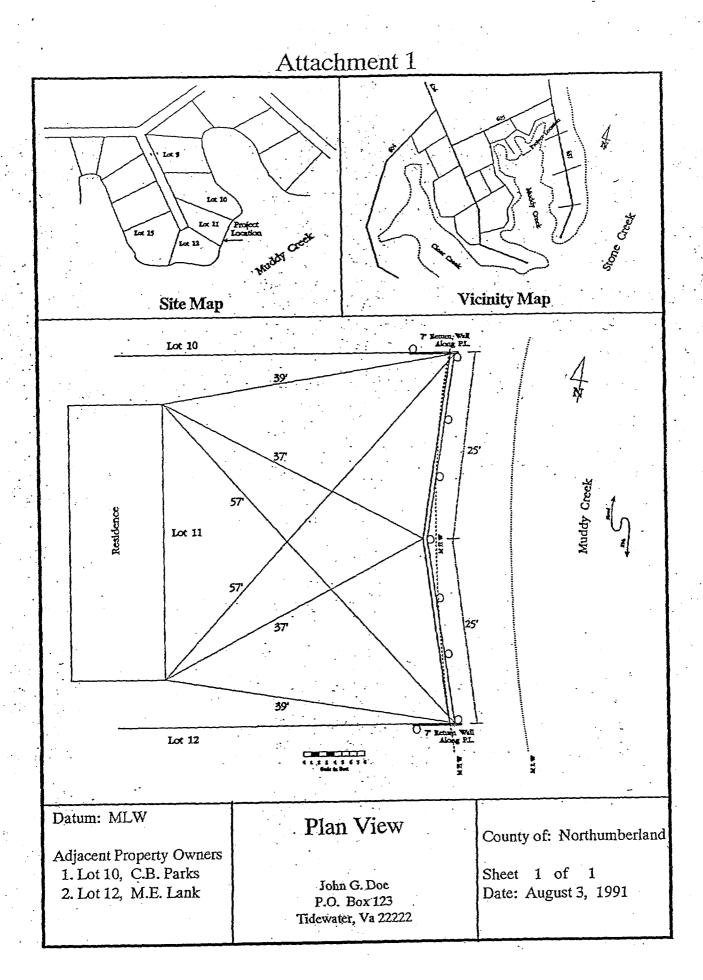
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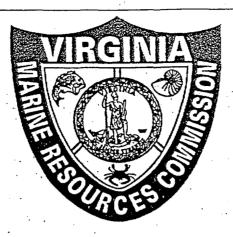


## Attachment 2

# PROJECT COMPLIANCE ASSESSMENT

			VMRC# ENGINEER SITE VISIT DATE/TIME	
- "		•	OTHERS PRESENT	
1.	Permitee			· · · · · · · · · · · · · · · · · · ·
2.	Location (Waterway) (City/County)			
3.	Project Description			· · · · · · · · · · · · · · · · · · ·
4.	Project Completed?	Yes	No	·
, <b>5</b> ,	Date of Permit Expiration	(VMRC) (LWB)		
6.	Project Dimensions as Peri		•	
7.	Project Dimensions as Cor	nstructed		
				·
8.	Can Permit Compliance be		If no, explain.	· · · · · · · · · · · · · · · · · · ·
<b>9.</b>	Degree of Compliance:	In Compliance	Moderate Out of C	Compliance
10.	Additional Comments			
		·		

### Attachment 3



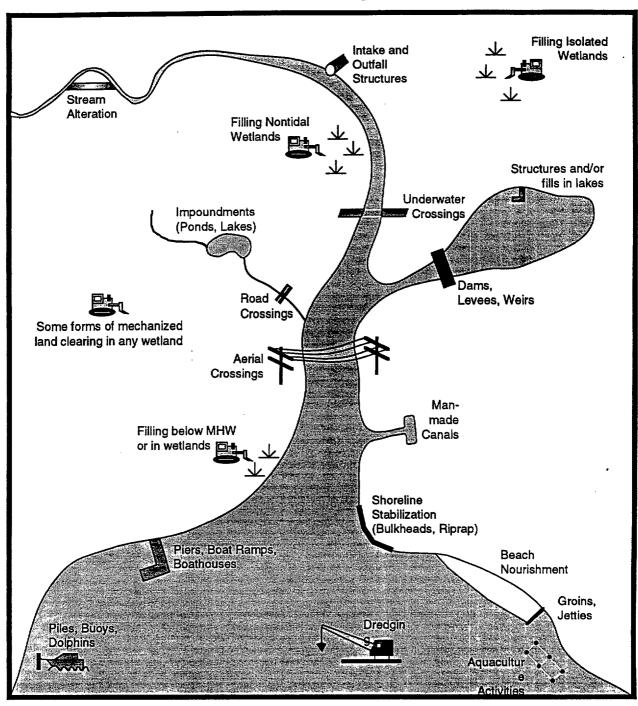
Permit # \_\_\_\_\_

# Commonwealth of Virginia Marine Resources Commission Authorization

A Permit has been issued to:	
	(Name)
	(Address)
The Permit Authorizes:	
Issuance Date	, Expiration Date
<del></del>	
	(Commissioner or Designee)
***	
	(Notary Public)
•	(Commission Expires)

Attachment B

# Local, State, Federal Joint Permit Application



Published jointly by the:

U.S. Army Corps of Engineers, Norfolk District Virginia Marine Resources Commission Virginia Dept of Environmental Quality Local Wetlands Boards

#### Preface

This guide is designed to assist you in applying for permits from Local, State, and Federal regulatory agencies for work in waters and/or wetlands within the Commonwealth of Virginia. The intent of the guide is to provide general information on the permit process, not a complete legal and technical reference.

Answers to technical questions and detailed information about specific aspects of the various permit programs may be obtained from any of the Federal and State regulatory offices or the advisory agencies listed in the agency directory.

#### The Joint Permit Application Process

Complete one application to apply for multiple agency permits - A single Joint Permit Application is used by the regulatory agencies. This means only one application needs to be completed for most local, state, and federal agency permits. However, some health departments and local agencies do not use this application. You should contact them for information regarding their requirements. Even though one application has been filed, separate permits are often required from the regulatory agencies involved in the permit program. Before you begin work, make sure you have received authorizations or waivers from each agency.

Send completed application to the Virginia Marine Resources Commission. They will assign a processing number and forward copies to the Corps of Engineers, Department of Environmental Quality, local wetlands board, and various other State agencies, as appropriate.

If you have any questions about the need for a permit, the permitting process, or completing the joint permit application, contact the Corps of Engineers for a pre-application site visit. Corps staff can often help you minimize adverse impacts or eliminate the need for a Corps permit altogether.

#### Organization of The Joint Application

The basic application, appendices, and various acknowledgement forms are located in the front of the booklet. The general information section which contains a regulatory and resource agency directory, information on penalties, processing procedures, definitions and special terms, and the most frequently asked questions is located in the back of the booklet.

If you are submitting this application as a Pre-Discharge Notification (PDN) under the the Corps Nationwide permit program, 33 CFR 330 (Appendix A, Part C), you must clearly identify it by writing the letters PDN at the top of the first page of the basic application.

# TABLE OF CONTENTS

Presace	• • • • • • • • • • • • • • • • • • • •	. 1		
Basic Application Form	••••••	. 3		
Appendices with Sample Drawings				
Appendix A	Private Piers & Marginal Wharves	9		
Appendix B	Boathouses	11		
Appendix C	Marinas & Community Piers	13		
Appendix D	Dolphins-Mooring Piles-Buoys Not Associated w/Piers	15		
Appendix E	Boat Ramps	17		
Appendix F	Bulkheads & Associated Backfill	19		
Appendix G	Fill	$\overline{21}$		
Appendix H	Fill	$\bar{2}\bar{3}$		
Appendix I	Marsh Toe Stabilization	$\overline{25}$		
Appendix J	Dredging/Mining/Excavating	$\overline{27}$		
Appendix K	Groins & Jetties	<u> 29</u>		
Appendix L	Breakwaters			
Appendix M	Beach Nourishment			
Appendix N	Intake - Outfall Structures			
Appendix O	Stream Channel Modifications	37		
Appendix P	Impoundments/Dams	30		
Appendix Q	Utility Crossings	41		
Appendix R	Road Crossings (Bridges-Tunnels-Culverts)	43		
	gnates Agent to Act on Your Behalf)	45		
Adjacent Property Owners Acknow	ledgement Form	47		
Applicant's and Contractor's Ackno	wledgement Form	49		
Regulatory & Advisory Agencies.		51		
Information on Federal Wetlands D	eterminations	55		
Federal Penalties, Related State Coo	les, Privacy Act Information	57		
Processing Procedures		58		
Most Frequently Asked Questions.		59		
Definitions, Special Terms, & Abbr	eviations	50		
	S. Army Corps of Engineers Regional Permit RP-17 for or private use	53		
Addendum: Department of Environmental Quality Additional Requirements				

#### BASIC APPLICATION FORM

# Joint Permit Application For Activities In Waters AND WETLANDS Of The Commonwealth Of Virginia

efer to the definitions section.  a. Applicant's name and complete address:	
Mr., Mrs., Ms. (circle one)	Telephone numbers: Home (A/C) Work (A/C)
b. Property Owner's name and complete address: (if different from above)	Telephone numbers: Home (A/C) Work (A/C)
Authorized agent's name ad complete address (if applicable):	Telephone numbers: Home (A/C)
	Work (A/C)
mainder of this question and submit the Applicant's and	Yes No If your answer is "yes" complete the
Have you obtained a contractor for the project?mainder of this question and submit the Applicant's and ur application.  Contractor's name and complete address:	Yes No If your answer is "yes" complete the
mainder of this question and submit the Applicant's and ur application.	Work (A/C)  YesNo If your answer is "yes" complete the d Contractor's Acknowledgement Form on page 47 w  Telephone numbers: Home (A/C) Work (A/C)

-3-

NAO FM 1065, Rev 30 APR 93/VMRC 30-300 Rev 30 APR 93

		a tributary to
	located in	
	located in	County/City
Give city	e descriptive directions to the and visible points of reference	project site from the nearest intersection of two state roads within that cour
	•	
,		
	range (Factorian)	d provide a brief description of the project:
7.	Please place a checkmark n	ext to as many of the following that describe your project site:
7.	Tidal waters	ext to as many of the following that describe your project site:  100 year floodplain  Natural
<b>7.</b>	Tidal waters Tidal wetlands Nontidal waters	to as many of the following that describe your project site:  100 year floodplain Natural Lake or Pond Man-made Mudflats Unknown
7.	Tidal waters Tidal wetlands Nontidal waters Nontidal wetlands Vegetated Shallows	to as many of the following that describe your project site:  100 year floodplain Natural Lake or Pond Man-made Mudflats Unknown River
<del>-</del>	Tidal waters Tidal wetlands Nontidal waters Nontidal wetlands Vegetated Shallows	to as many of the following that describe your project site:  100 year floodplain Natural Lake or Pond Man-made Mudflats Unknown
7.	Tidal waters Tidal wetlands Nontidal waters Nontidal wetlands Vegetated Shallows	to as many of the following that describe your project site:  100 year floodplain Natural Lake or Pond Man-made Mudflats Unknown River
	Tidal waters Tidal wetlands Nontidal waters Nontidal wetlands Vegetated Shallows Other (explain - e.g.	to as many of the following that describe your project site:  100 year floodplain Natural Lake or Pond Man-made Mudflats Unknown River
	Tidal waters Tidal wetlands Nontidal waters Nontidal wetlands Vegetated Shallows Other (explain - e.g. )	ext to as many of the following that describe your project site:

9.	Will the proje Yes	ct impact (f	lood, drain, excavate, o Uncertain	lredge, fill, shade	, etc.) wetlands?	
If yo	ur answer is "Y	ES", please	indicate:		•	
	tidal	square feet	ea(s) to be impacted? nontidal clands area(s) to be imp	square feet acted?	square feet	
not l	imited to archeo	logical sites	d at the site of any history, Civil War earthwork: "Yes", please provide	s, graveyards, bui	ldings, bridges, canal:	s include but are s, etc.)
			tacted the Department of "Yes", please provide t			roject?
	a. VDHR file	e number: _				
	• -	-	effect/no adverse effec			vey requested,
furth	er consultation i	needed):			·	
12.	Is your project	t located w	thin a historic district?	Yes _	No <sub>_</sub> Un	certain
пл	es", piease indic	ate which d	listrict:	- <del></del>		•
12	TT	to logato and	i. Incological sizes	historia et anti-		1 0
13.	Yes	No If	theological sites and/or "Yes", please provide t	he following info	s been carried out on t mation:	ne property?
	b. Name of f					
		<u> </u>	with the Virginia Dep	artment of Histori	ic Resources?	
		_	erty located?			
	•					
4.4						•
Local	l) for any portion	of the proje	site visit, applied to, of ect described in this apposer is "Yes", provide	olication or any ot	her project at the site?	ederal, State, or
Name	e of Representat	ive:			•	,
Agen	<u>cy</u>	Activity	Application	n Number	Action Taken (che the appropriate box	
		•			Issued	_Denied
					Withdrawn	Site Visit
Date.	Action taken				**	prin 4 mit

completed?	work commenced or has any portion of the project for which you are seeking a permit bee
completed:	_ 163 140
b) Are you	either question above is "YES", give details below stating when the work was completed,
periorinea me wo	IK, and which agency (if any) directed you to submit the application. (Please clearly different
on your application	on drawings that portion of the work which has been completed from that which is propose
•	
16. Approxima	tely how long will it take to complete the project after all required permits have been issued
months	bely now long with it take to complete the project after an required permits have been issued
17. Approxim	ate cost of the entire project (materials, labor, etc): \$ Approximate cost of on
hat portion of the	project which affects State Waters (below mean low water in tidal areas or ordinary high w
n nontidal areas):	\$
18. List the na	
lo. List the na	me and complete mailing address of each adjacent property owner to the project.
e.	
•	
he project, if the v	ne and complete mailing address of each waterfront property owner across the waterway from water body is less than 500 feet wide. Also, if the project is within a cove, list the name and
duress of each pro	operty owner located on the cove.
•	
•	•
A11 -65	
20. All affected	property owners must be notified of the proposed plans. If you do this yourself, it will assour application. Have you discussed this project with all affected parties and had them sign
diacent Property	Owner's Acknowledgement Form? Yes No If your answer is yes, the
cknowledgement	forms must be included with this application.
	Torring strength on the strength strength
	•

21. Check the appendices below which apply to your project. NOTE: The applicable appendices must be completed and submitted as part of your application. Additional appendices can be provided upon request. If you are proposing multiple activities, you may submit one plan view drawing provided all the required information for each activity is included (e.g. if your proposal includes a pier, boathouse and dredging, you may show all activities on a single plan view drawing). A sample drawing for each activity is located on the back of the corresponding appendix. Although the sample drawings are condensed so that the plan view, cross section, end view, and vicinity maps are all on one page, you do not have to limit your drawings to one page. Drawings submitted need not be prepared by a professional draftsman as in these samples.

Ap A	pendix B pendix C pendix C pendix D pendix E pendix F pendix G pendix H pendix I pendix I pendix L pendix L pendix N pendix N pendix O pendix P pendix Q U	LIST OF APPENDICES rivate Piers & Marginal Wharves oathouses farinas & Commercial Piers olphins-Mooring Piles-Buoys Not Associated w/Piers oat Ramps ulkheads & Associated Backfill ill iprap & Associated Backfill farsh Toe Stabilization redging/Mining/Excavating roins & Jetties reakwaters each Nourishment take - Outfall Structures ream Channel Modifications inpoundments/Dams tility Crossings oad Crossings (Bridges-Tunnels-Culverts)
Ado		epartment of Environmental Quality Additional Requirements
	Al	L APPLICANTS MUST SIGN
authorized represen		for the activities I have described herein. I agree to allow the duly tory or advisory agency to enter upon the premises of the project site at aph site conditions.
I hereby certify tha	t the information sub	mitted in this application is true and accurate to the best of my knowledge.
·		
APPLICANT'S SI	GNATURE	APPLICANT'S NAME (PRINTED/TYPED)
DATE		

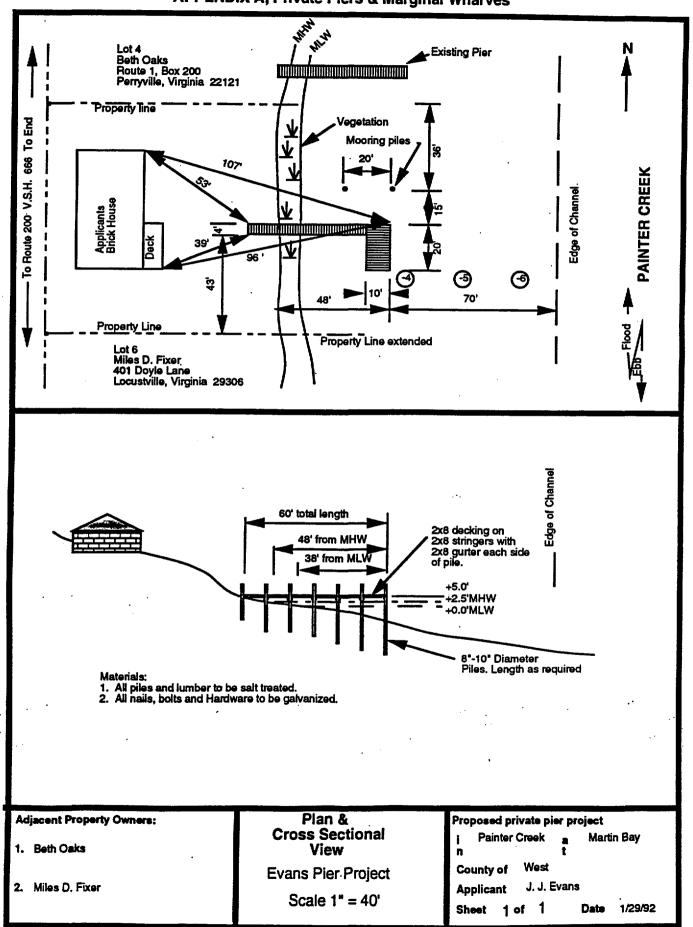
REMINDER: BE SURE TO COMPLETE THE APPENDICES YOU CHECKED ABOVE AND SUBMIT WITH THE BASIC APPLICATION FORM (PAGES 3-7). MAIL ALL INFORMATION TO:

Virginia Marine Resources Commission Habitat Management Division P. O. Box 756 Newport News, Virginia 23607

# APPENDIX A -- PRIVATE PIERS AND MARGINAL WHARVES

	n View Drawing			.•
·	north arrow	·		
	waterway name			
	waterway hame     existing structures     benchmarks showing distances to fixed property line (nontidal)     location of vegetated wetlands at the property lines, and location of location of vegetated wetlands.	oints of reference		
	mean low water and mean high water line	e (tidal)		
-	mean low water and mean right water mix		•	•
	location of vegetated wetlands at the proj	ect site		
	shoreline, property lines, and location of	adjacent property owners	(if in a cove or the water	way is less
	than 500 feet wide, also show the location	n of the property owner ac	ross from the site)	•
	distance the proposed structure will be lo	cated from the adjoining p	roperty lines	
	width of the waterway (measuring from a	nean high water to mean h	igh water (tidal) or ordir	ary high
	water to ordinary high water (nontidal)			
	ebb and flood (tidal) or direction of flow	(nontidal)		
	location and distance from existing chant	ieis (marked and/or unmar	ked)	
	coundings taken at mean low water (tidal	) or at hill bool level (bobi	idal) at 10-tool intervals	. ••
	channelward encroachment (including me	poring bues) relative to me	an high and mean low w	ater lines
	dimensions of pier and all L/1-head secti	on, platform, or deck		
	distance between the structure and moori	ng piles		
G: 3	177 Th. 1			
Sid	e View Drawing			
	existing contours of the bottom and mars	n peat surrace		
	mean high and mean low water levels (tid	ai areas)		•
-	ordinary high water level (nontidal areas) height of pier over existing bottom or ma	mh mant curfoca		
	neight of piet over existing bottom of ma	ish peat surface		
	Vicinity Map The name of the map from	which the vicinity man w	as taken and the exact lo	cation of th
	project site must be included (U.S.G.S. o			
	F3 (	, and another the first the first term of the fi	ound, may a pronounce,	•
1.	Number of vessels to be moored at the pi	er:		
2.	Provide the registration number of vessel	(s):		
	registration		type of vessel	
			·	
	registration		type of vessel	
	registration		type of vessel	
2	C)			
3.	Give type (e.g. sail, power, skiff, etc.) an	d size of vessel(s) to be m	oored at the pier:	
	typelength	width	dest	
			draft	
	typelength	width	draft	
	typelength	width	draft	

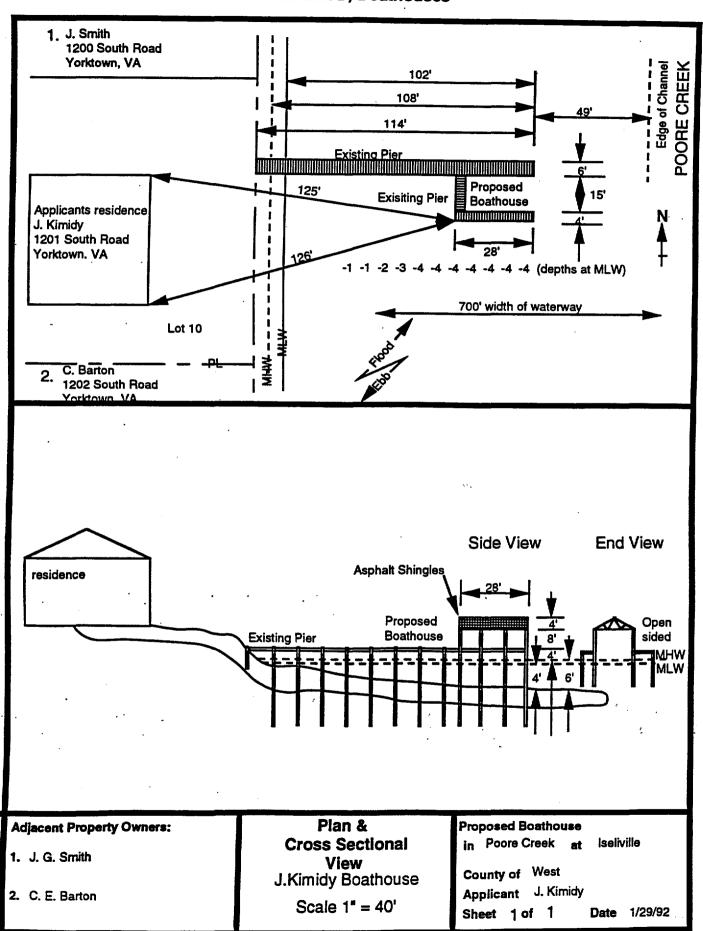
## **APPENDIX A, Private Piers & Marginal Wharves**



# APPENDIX B --BOATHOUSES

Pla	n View Drawing
	north arrow
	waterway name
	existing structures benchmarks showing distances to fixed points of reference
·	benchmarks showing distances to fixed points of reference
	mean low water and mean high water lines (tidal)
<u></u>	ordinary high water line (nontidal)
	location of vegetated wetlands at the project site
	shoreline, property lines, and location of adjacent property owners (if in a cove or the waterway is less
	than 500 feet wide, also show the location of the property owner across from the site)
	width of the waterway (measuring from mean high water to mean high water (tidal) or ordinary high
	water to ordinary high water (nontidal)
	ebb and flood (tidal) or direction of flow (nontidal)
	location and distance from existing channels channelward encroachment (including mooring piles) relative to mean high and mean low water lines
	channelward encroachment (including moothing piecs) leading to mean high and mean low water mies dimensions of the boathouse, catwalks, or other structures
	distance between the structure and mooring piles
	soundings taken at mean low water (tidal) or at ordinary high water (nontidal) at 10-foot intervals
	<ul> <li>height above mean high and mean low water level</li> <li>material to be used for construction</li> <li>Vicinity Map The name of the map from which the vicinity map was taken and the exact location of the project site must be included (U.S.G.S. quad sheet, street map, or county map is preferred).</li> </ul>
•	
	Give type (e.g. sail, power, skiff, etc.) and size of vessel(s) to be moored at the boathouse:
	typelengthwidthdraft
	typelengthwidthdraft
	typelengthwidthdraft
	typetenguiutatt
2.	Will the sides of the boathouse be enclosed? Yes No
	Provide the registration number of vessel(s):
•	
	registration type of vessel
	registration type of vessel

#### **APPENDIX B, Boathouses**

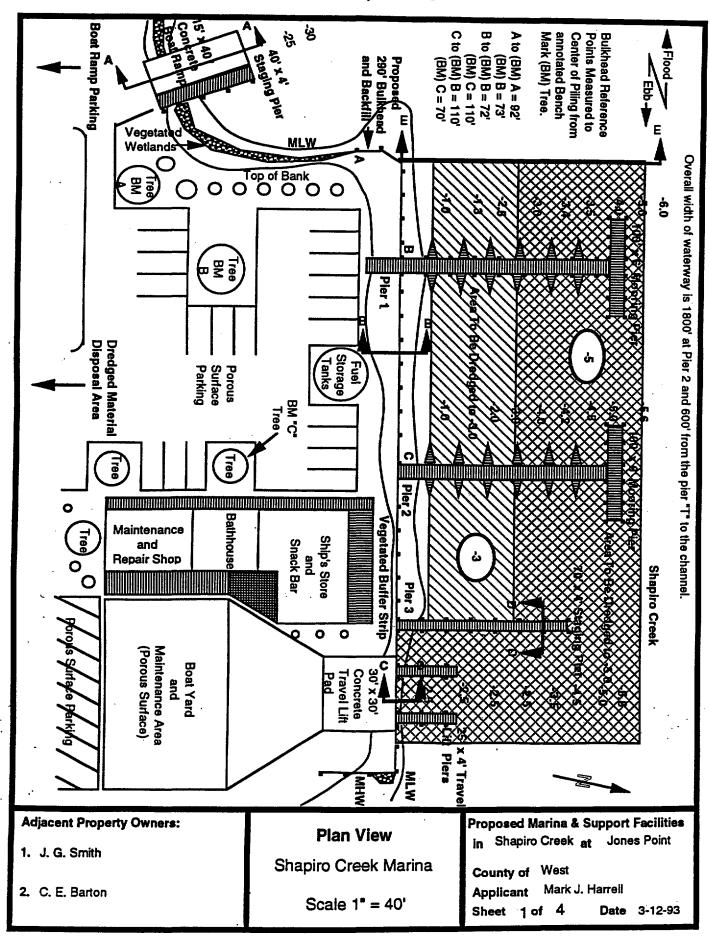


#### APPENDIX C -- MARINAS AND COMMUNITY PIERS

PLEASE COMPLETE THE CHECKLIST AND ANSWER THE QUESTIONS. THE DRAWINGS MUST CONTAIN THE FOLLOWING INFORMATION OR THEY WILL BE RETURNED AS INCOMPLETE:

Plan	View Drawing				
	_ north arrow				
	waterway name				
	existing structures				•
	benchmarks snowing distances to lixed	points of reference	e ,	•	•
	mean low water and mean high water lin	es (tidal)			
	ordinary high water line (nontidal)	•			.•
	location of vegetated wetlands at the pro-	ject site			
	shoreline, property lines, and location of	adjacent property	y owners (if in	a cove or the water	way is less
	than 500 feet wide, also show the location	on of the property	owner across i	from the site)	
	width of the waterway (measuring from	mean high water	to mean high w	vater (tidal) or ordin	ary high
	water to ordinary high water (nontidal)		_		
	ebb and flood (tidal) or direction of flow location and distance from existing channel channelward encroachment (including m	(nontidal)			
•	location and distance from existing change	nels			
	channelward encroachment (including m	ooring piles) relat	ive to mean hi	gh and mean low w	ater lines
	_ length, width and other pertinent dimens	ions of the structi	ires	<del>-</del>	
	_ distance between the structures and moor	ring piles		·	
	soundings taken at mean low water (tida	l) or at ordinary hi	igh water (nont	tidal) at 10-foot inte	rvals
	proposed structures for collection and ha	ndling of hazardo	us material (inc	clude settling tanks	for
	collection of travel lift washdown water,	paint chips, etc.)	•		
	location of gasoline storage tanks	•	•		
	material to be used for construction existing contours of the bottom mean high and mean low water levels (tie ordinary high water level (nontidal) height above mean high/mean low/ordina height of structure(s) over the bottom or  Vicinity Man. The name of the man from	ary high water line marsh peat surfac	<b>e</b>	ron and the awart la	antion of the
_	Vicinity Map The name of the map from project site must be included (U.S.G.S.	quad sheet, street	map, or county	y map is preferred).	cation of the
1.	Have you obtained the State Health Depa (You are required to obtain this approval	rtment's approval or a variance before	for sanitary fa- ore a VMRC pe	cilities? Y	res No )
2.	Will petroleum products or other hazardo Yes No If your answer	us materials be stories yes, please inc	ored or handled lude your spill	at the facility? contingency plan	
3.	Will the facility be equipped to offload so	wage from boats	? Yes _	No	
4.	Indicate the number and type of slips:				
			Wet Slips	Dry Storage	
		Existing			
		Proposed			

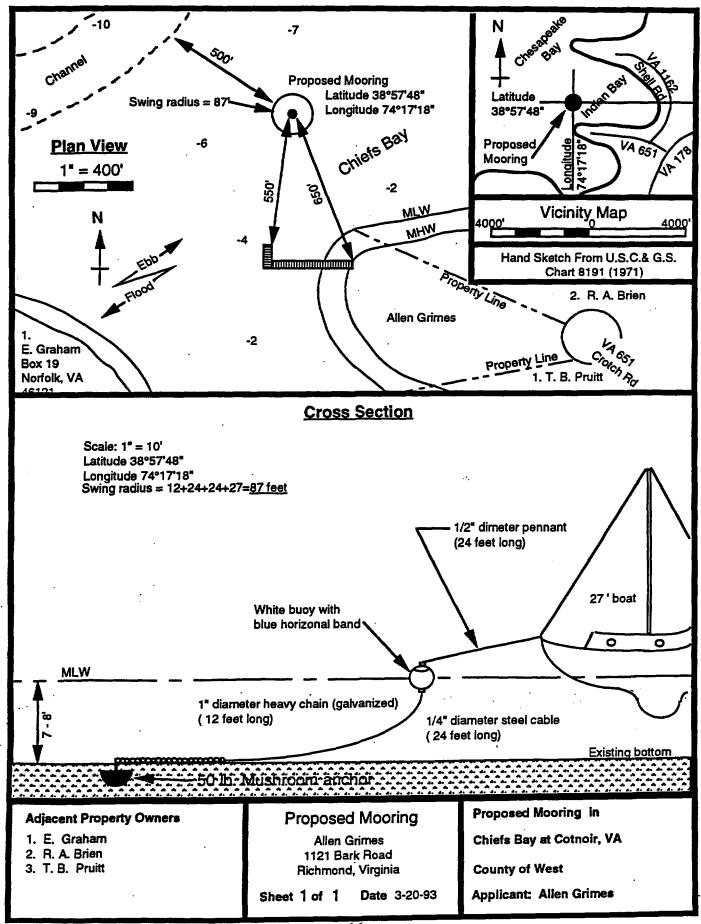
THE DEPARTMENT OF ENVIRONMENTAL QUALITY REQUIRES APPLICANTS TO SUBMIT THE ADDENDUM LOCATED AT THE END OF THIS APPLICATION



# APPENDIX D -- DOLPHINS OR MOORINGS (not associated with piers)

	View Drawing
	_ north arrow
	waterway name
	existing structures
	henchmarks showing distances to fixed points of reference
•	mean low water and mean high water lines (tidal)
	ordinary high water line (nontidal)
	location of vegetated wetlands at the project site
	shoreline, property lines, and location of adjacent property owners (if in a cove or the waterway is less
	than 500 feet wide, also show the location of the property owner across from the site)
	width of the waterway (measuring from mean high water to mean high water (tidal) or ordinary high
	water to ordinary high water (nontidal)
	_ ebb and flood (tidal) or direction of flow (nontidal)
	type of mooring (huoy, nile, dolphin)
	anchoring device and weight
	latitude and longitude of mooring
	anchoring device and weight latitude and longitude of mooring location and distance from existing channels
	_ total swing radius
*********	_ total 6 ming radius
Cros	s Section Drawing
0101	type of mooring
	_ type of mooring _ length of chain and line used
	weight and type of anchor
	weight and type of anchor material to be used for construction
	existing contours of the bottom
	mean high and mean low water levels (tidal)
	ordinary high water level (nontidal)
	Vicinity Map The name of the map from which the vicinity map was taken and the exact location of the
	project site must be included (U.S.G.S. quad sheet, street map, or county map is preferred).
1	project site must be included (U.S.G.S. quad sheet, street map, or county map is preferred).
1.	project site must be included (U.S.G.S. quad sheet, street map, or county map is preferred).  Give the number of vessels to be moored:
1. 2.	project site must be included (U.S.G.S. quad sheet, street map, or county map is preferred).
	project site must be included (U.S.G.S. quad sheet, street map, or county map is preferred).  Give the number of vessels to be moored:
	project site must be included (U.S.G.S. quad sheet, street map, or county map is preferred).  Give the number of vessels to be moored:  Give type (e.g. sail, power, skiff, etc.) and size of vessel(s) to be moored: typelengthwidthdraft
	project site must be included (U.S.G.S. quad sheet, street map, or county map is preferred).  Give the number of vessels to be moored:  Give type (e.g. sail, power, skiff, etc.) and size of vessel(s) to be moored:
	project site must be included (U.S.G.S. quad sheet, street map, or county map is preferred).  Give the number of vessels to be moored:  Give type (e.g. sail, power, skiff, etc.) and size of vessel(s) to be moored: typelengthwidthdraft
2.	project site must be included (U.S.G.S. quad sheet, street map, or county map is preferred).  Give the number of vessels to be moored:  Give type (e.g. sail, power, skiff, etc.) and size of vessel(s) to be moored: typelengthwidthdraft typelengthwidthdraft  Name(s) and complete address(es) of the owner(s) of the vessel(s) if other than applicant:
2.	project site must be included (U.S.G.S. quad sheet, street map, or county map is preferred).  Give the number of vessels to be moored:  Give type (e.g. sail, power, skiff, etc.) and size of vessel(s) to be moored:
<ul><li>3.</li><li>4.</li></ul>	project site must be included (U.S.G.S. quad sheet, street map, or county map is preferred).  Give the number of vessels to be moored:  Give type (e.g. sail, power, skiff, etc.) and size of vessel(s) to be moored:
<ol> <li>3.</li> <li>4.</li> <li>5.</li> </ol>	project site must be included (U.S.G.S. quad sheet, street map, or county map is preferred).  Give the number of vessels to be moored:  Give type (e.g. sail, power, skiff, etc.) and size of vessel(s) to be moored:

#### **APPENDIX D, Dolphins or Moorings**



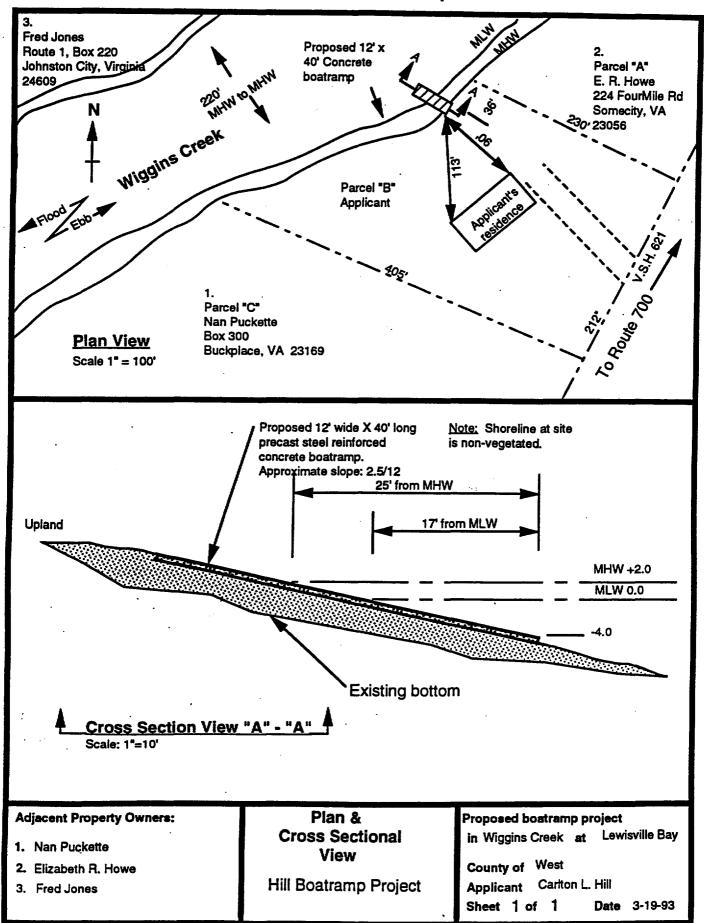
#### APPENDIX E -- BOAT RAMPS

PLEASE COMPLETE THE CHECKLIST AND ANSWER THE QUESTIONS. THE DRAWINGS MUST CONTAIN THE FOLLOWING INFORMATION OR THEY WILL BE RETURNED AS INCOMPLETE:

Plan	n View Drawing			•	
	north arrow				
	waterway name				
	_ existing structures				. •
	benchmarks showing	distances to fixed points	of reference		
	mean low water and	mean high water lines (tida	ll)		. · •
	ordinary high water l	ine (nontidal)		. •	
	location of vegetated	wetlands at the project site	;		
	shoreline, property li	nes, and location of adjace	nt property own	ners	
		y (measuring from mean h	igh water to me	ean high water (	(tidal) or ordinary high
	water to ordinary hig	h water (nontidal)			
	ebb and flood (tidal)	or direction of flow (nonti-	dal)		
	dimensions of ramp				
	location and distance	from existing channels			
	channelward encroac	hment relative to mean hig	h and mean low	water lines	
Cro	ss Section Drawing	<u>.</u>			
	_ material to be used for				
	_ existing contours of t	he bank and surface			
	_ mean high and mean				
	_ ordinary high water le	evel (nontidal)			
1.	project site must be i Will any excavation l	ncluded (U.S.G.S. quad sl be required to construct the	eet, street map.  boat ramp?	, or county map Yes	• •
2.	What type of design a concrete slab on grav	and materials will be used el bedding, etc.)?	(e.g. open pile o	lesign with salt	treated lumber or
3.	Please give the location	on of the nearest public bo	atramp:	•	
4.	Will any other structuetc.)? Yes	res be installed concurrent No If "Yes", plea	with the boatra	ump installation	(e.g. tending pier, groin,
_	_				<del></del>
5.	Will any portion of the If your answer is yes,	e project be placed on wet indicate the square footag	lands? Ye and type of an	ea(s) to be imp	acted:
			Tidal	Nontidal	
		Vegetated wetlands	sf	sf	
		Non-vegetated wetlands	sf	****************	
		Subaguague land			1

FOR COMMERCIAL BOATRAMPS, THE DEPARTMENT OF ENVIRONMENTAL QUALITY REQUIRES APPLICANTS TO SUBMIT THE ADDENDUM LOCATED AT THE END OF THIS APPLICATION

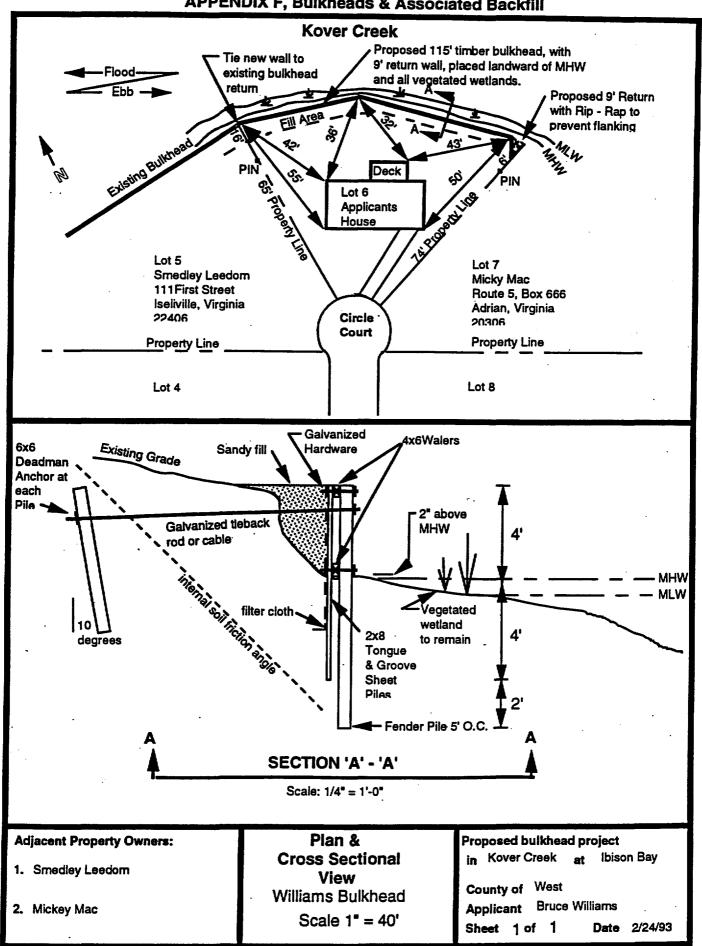
#### **APPENDIX E, Boat Ramps**



#### APPENDIX F -- BULKHEADS & ASSOCIATED BACKFILL

P	lan View Drawing				
	north arrow				
	waterway name				
	existing structures				
	benchmarks showing distances to fixed noing	ts of reference			
	mean low water and mean high water lines (to ordinary high water line (nontidal)	idal)		:	
	ordinary high water line (nontidal)		•		
:	channelward encroachment relative to mean i	high/mean low/or	dinary high wat	ter lines	•
	location of vegetated wetlands at the project s	ite			
	shoreline, property lines, and location of adja	acent property ow	mers		
	ebb and flood (tidal) or direction of flow (nor	ntidal)			
	return walls (if applicable)	,			
	connection with existing bulkhead(s) (if appli	icable)			
_	proposed riprap scour protection (if applicabl	e)			
	proposed backfill	,-,			
_	length of bulkhead				
	rough or bandions				
C	ross Section Drawing				
	design & dimensions including all structural	components (i.e.	deadmen, knee	hraces, sheeting, et	c.)
-	material to be used for construction	·	doudinon, knoc	, 61mees, 61meem P, 61	<b></b> ,
	existing contours of the bottom and marsh pe	at surface			
	mean high and mean low water levels (tidal)	at Suriace			
	ordinary high water level (nontidal)				
	proposed backfill				
	base width and height of proposed riprap scot	ur protection (if a	onlicable)		
	filter cloth	ar procedon (ir a	ppiicable)		
	Vicinity Map The name of the map from wh	ich the vicinity m	an was taken a	nd the exact location	of the
	project site must be included (U.S.G.S. quad	sheet, street man	o. Or county ma	n is preferred)	1 OI UIC
	· ·		, or obtaining and	p to prototrou).	
1.	a) Is any portion of the project maintenance of	replacement of	an existing and	currently serviceable	e.
	bulkhead and/or backfill? Yes	No Linear fo	at aviatina	, , , , , , , , , , , , , , , , , , ,	
-	Durkhedd midror Ddekrim: 165	_ 140 Filieat le	er existing:		
	b) If yes, is it possible to construct the new b	ulkhead no greate	er than 2 feet ch	annelward of the ex	isting
	bulkhead? Yes No				
	110	ii your answer.	is 140, explain		······
_					
2.	> 1	be used, including	ig source of bac	kfill material and its	} ·
	composition (e.g. 80% sand, 15% clay and 59	lpha silt), and all fit	ings for the bu	lkhead:	
3.	Will any portion of the project be placed on w	etlands or subacu	ieniis land?	Yes No	
	If your answer is yes, indicate the square foots	age and type of a	ea(s) to be imp		,
		Tidal	Nontidal Nontidal	7	
	Vegetated wetlands		<del> </del>	4	
		sf	sf	_	
	Non-vegetated wetlands	sf	***************************************	1	
	Subaqueous land	e f		\$	

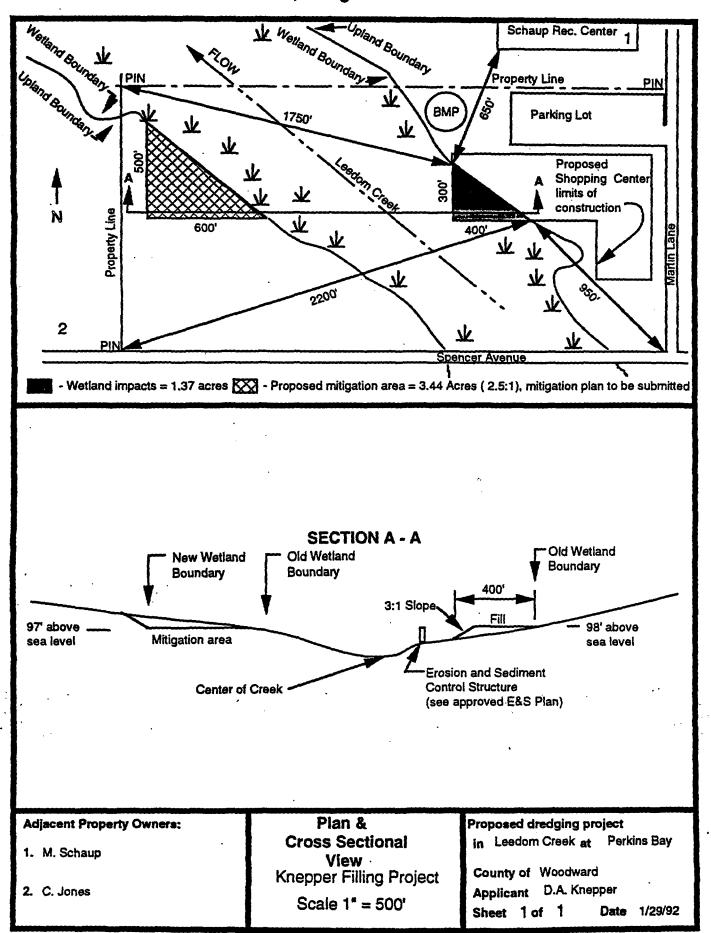
#### **APPENDIX F, Bulkheads & Associated Backfill**



#### APPENDIX G - FILL

Pla	n View Drawing				
	north arrow waterway name (if applicable)				
	waterway name (if applicable) dimensions of area to be filled	·			
	existing structures	- C C			
	benchmarks showing distances to fixed points of location of vegetated wetlands at the project site	oi reierence			
	property lines, and location of adjacent property	v owners	•		٠.,.
	mean low water and mean high water lines (tida	il)			
	ordinary high water line (nontidal)		••		
	channelward encroachment relative to mean hig (nontidal)	n/mean low w	ater lines (tidal)	or ordinary high v	water line
	width of the waterway (if applicable)				
	ebb and flood (tidal) or direction of flow (nontic	ial)			
Cro	oss Section Drawing			•	
********	existing contours of the bottom				
	elevation of proposed fill structure or method used to contain fill				
	mean high and mean low water levels (tidal)				
	ordinary high water level (nontidal)				
	Vicinity Map The name of the map from which	the vicinity m	ıan was taken an	d the exact locati	ion of the
<del></del>	project site must be included (U.S.G.S. quad sh	eet, street map	o, or county map	is preferred).	on or the
1.	What is the source and amount of the fill material State the type and composition percentage of the	al?		cubic y	ards
2.	State the type and composition percentage of the	e fill material (	e.g. 80% sand, 1	5% clay, 5% silt)	<b>)</b> :
3.	Explain the purpose of the filling activity & the t	ype of structur	e to be built on t	he filled area:	
	***************************************				***************************************
4.	If filling activity is proposed in a wetlands, what	is the distance	from the neares	st waterbody?	
5.	Will any of the fill be placed on wetlands or sub	nampone lond?	Vas	<b>3</b> 7-	
	If your answer is yes, indicate the square footage	addeous land? e and type of a	rea(s) to be impa	cted:	
		Tidal	Nontidal		
	Vegetated wetlands	sf	si		
	Non-vegetated wetlands	sf			
•	Subaqueous land	sf	sf		
6.	Describe the method(s) that will be used for sedin	mentation and	erosion control:	•	
7.	What is the approximate drainage area and avera	se stream flow	?		
	HE DEPARTMENT OF ENVIRONMENTAL OUA	LITY REOUI	RES APPLICAN	e miles (	JIS Ture
•	ADDENDUM LOCATED AT TH	E END OF T	HIS APPLICAT	ION	i a laid

#### **APPENDIX G, Filling Waters / Wetlands**



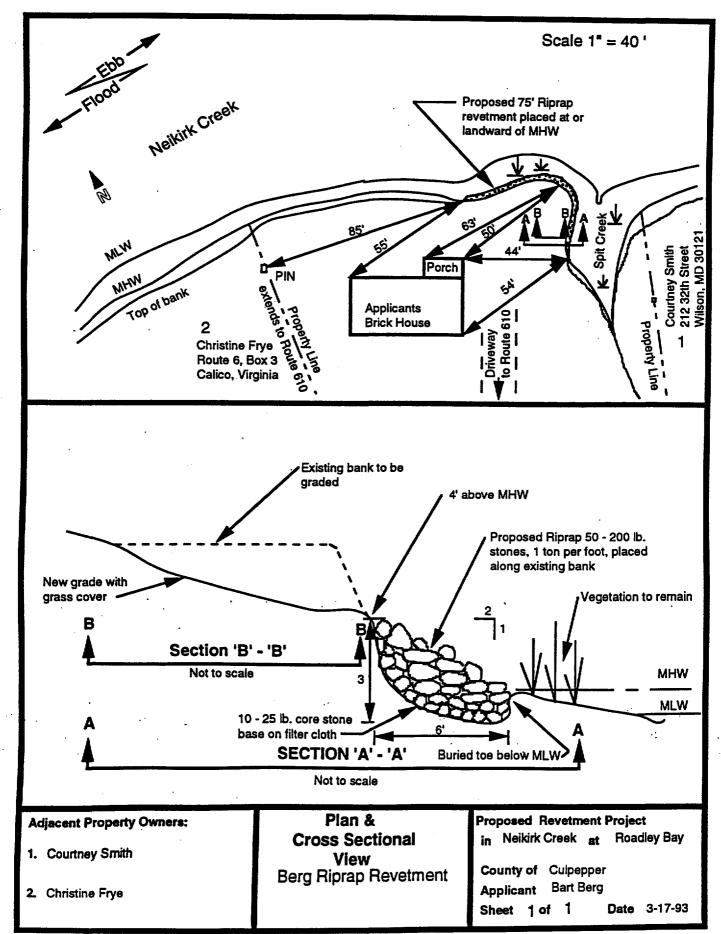
# APPENDIX H -- RIPRAP REVETMENT & ASSOCIATED BACKFILL

PLEASE COMPLETE THE CHECKLIST AND ANSWER THE QUESTIONS. THE DRAWINGS MUST CONTAIN THE FOLLOWING INFORMATION OR THEY WILL BE RETURNED AS INCOMPLETE:

Plar	1 View Drawing			•	
	north arrow				
	waterway name				
	existing structures				
	benchmarks showing di	stances to fixed	points of refere	псе	•
	mean low water and mea	an high water lir	nes (tidal)	•	
	ordinary high water line	(nontidal·)			
	location of vegetated we	cuands at the Dro	ject site	·	•
	shoreline property lines	and location of	t adjacent prope	erty owners	
	ehh and flood (tidal) or a	direction of flow	v (nontidal)		
	channelward encroachm	ent relative to m	iean high/mean	low/ordinary high water !	lines
	connection with existing	bulkhead or rir	rap structures (	if applicable)	
	proposed backfill	•	•	••	
	length of revetment				
	_ 0			•	
05	ss Section Drawing				
	_ proposed backfill				
	mean high and mean lov	v water levels (ti	idal)		
	ordinary high water (nor	ıtidal)		•	
	_ existing contours of the	shoreline and/or	bank		
	_ dimensions of proposed	reverment			
	filter cloth				
	buried toe or riprap apro	n			
_	_ proposed grading of exis		ve to mean high	ordinary high water	
	_ proposes generally as are			,	
	What will be the average amo	uded (U.S.G.S.	quad sheet, stre	eet map, or county map is one of mean high water or ord	s preferred).
	root of shorefule:			win(a) per re	•
	What type of material will be	used for construc	tion of the riprap r	evetment (e.g. quarry stone, c	inder blocks, etc.)?
	What will be the average wei	ight of the:	Core materi	al (bottom layers) poun	ids per stone
			Armor mate	rial (top 2 layers) p	ounds per stone
				•	•
	If the revetment will be back	filled, describe the	composition of th	e material to be used (e.g. 80%	% sand, 15% clay and 5% silt)
					,,
	What is the source of the bac	kfill material?			
	Will any portion of the project	et be placed on wer	lands or subaqueo	us land? Yes	No
	If your answer is yes, indicate	the square footage	and type of area	to be impacted:	
	,	Tidal	Nontidal	, milmone	
	Vegetated wetlands	sf	sf	i I	
	Non-vegetated wetlands	<del></del>	21		
	Moli-Aederared Metiauge	l sf		i	
	Subaqueous land	sf	sf		

THE DEPARTMENT OF ENVIRONMENTAL QUALITY REQUIRES APPLICANTS TO SUBMIT THE ADDENDUM LOCATED AT THE END OF THIS APPLICATION

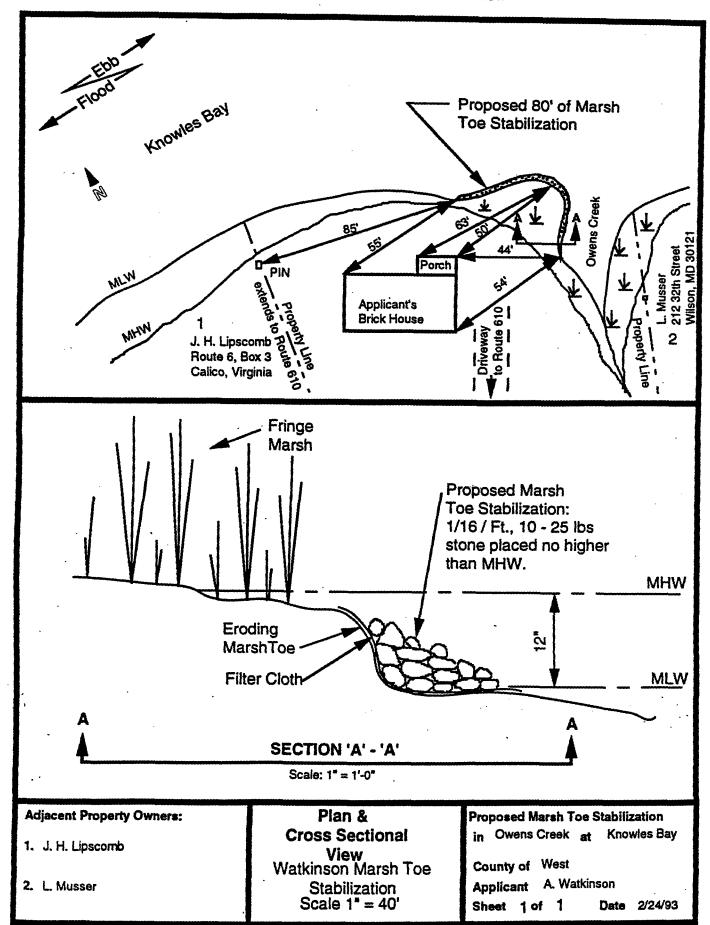
## **APPENDIX H, Riprap Revetment & Associated Backfill**



#### APPENDIX I -- MARSH TOE STABILIZATION

	Plan	view Drawing north arrow		
		waterway name		
		mean low water and mean high water lines (tide	al)	
		ordinary high water line (nontidal)	•	
		existing and proposed structures showing distant	nce relative to mean high	mean low/ordinary high water
		benchmarks showing distances to fixed points	of reference	
		location of vegetated wetlands at the project site	,	
		shoreline, property lines, and location of adjace	ent property owners	
		ebb and flood (tidal) or direction of flow (nonti	dal)	
)		length of structure		
	Cross	Section Drawing		
		mean high and mean low water levels (tidal)		
		ordinary high water level (nontidal)		
	•	existing contours of the bottom and marsh peat	surface	
)		dimensions of proposed structure		
	~	deadmen, tie-backs, knee braces, or other method	ods to be used to anchor t	he structure
		filter cloth	•	
	***************************************	buried toe or riprap apron		
)	***************************************	Vicinity Map The name of the map from which project site must be included (U.S.G.S. quad should be seen to be included of the map from which project site must be included (U.S.G.S. quad should be seen to be se	the vicinity map was tale eet, street map, or county	ten and the exact location of the y map is preferred).
	1.	What type of material will be used (e.g. quarry etc.)?	stone, cinder blocks, treat	ed tongue and groove timber,
ļ	2.	If riprap will be used for construction, provide to a) average amount of cubic yards OR tons used	he following information:	eng en andra en contra
		b) will filter cloth be used? Yes No	per miear root or structu	re:ton(s)
		c) average weight of the: Core material (bo	ttom lavers) nou	nds per stone
-		c) average weight of the: Core material (bo Armor material (t	op 2 layers)poi	unds per stone
		Will any portion of the project be placed on wet		
		If your answer is yes, indicate the amount and ty	pe of area(s) to be impact	ted:
			Square feet	
		Vegetated wetlands		
		Non-vegetated wetlands		
		Subaqueous land		

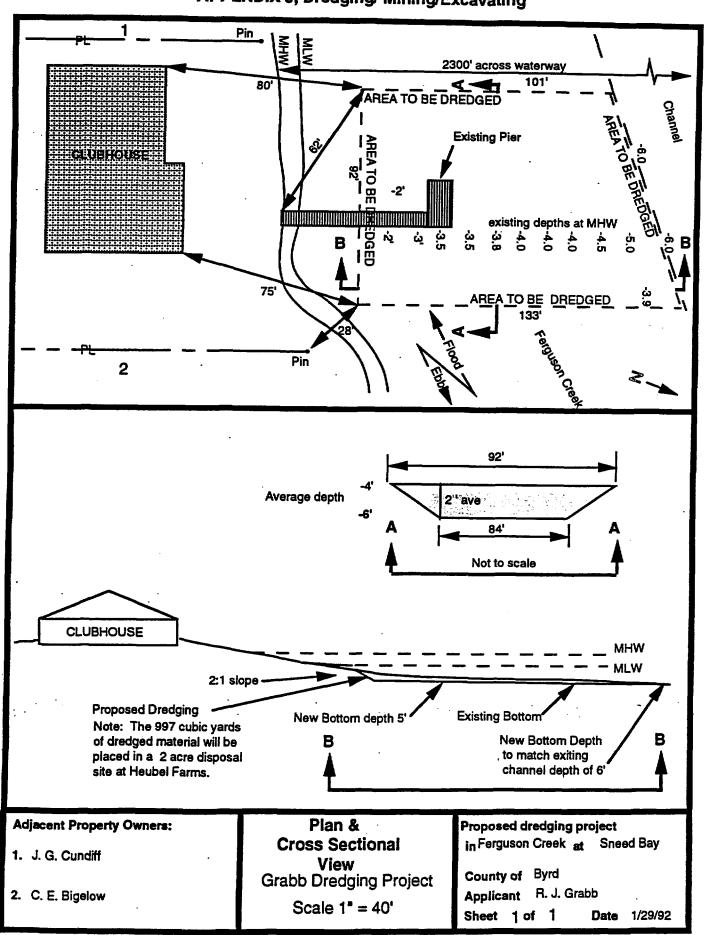
#### **APPENDIX I, Marsh Toe Stabilization**



#### APPENDIX J -- DREDGING/MINING/EXCAVATING

_	g							
north arrow								
waterway nam	ne			•				
existing struct	tures							
	-	suring from	mean high w	ater to mean	n high water (	idal) or ordina	ry high water t	o ordinary hig
water (nontida							•	
	(tidal) or direc			• _				•
	imensions of a							
	howing distance							
mean low wat						nontidal)		
location and a								
shoreline, pro			f adjacent pro	perty owner	S			
location of ex								
location of dre								
location and d								
existing depth	s in the project	t area based	on mean low	water (tidal	) or ordinary	nigh water (no	ntidal)	
Cross Section Drav	ving for Dre	edge Area		•	Cross Se	tion Drawi	ng for Dispe	sal Area
existing contou	_	_				osed berms		
dredge cut - slop			. & top width	1		osed spillway	R	
existing depths l		_	-	•			redged material	1
					pon	ing deput of d	wgw makina	l.
existing depths based on ordinary high water (nontidal)								
proposed project  Vicinity Map  be included (U	depths (after of the name of the	iredging) he map fron				d the exact lo	cation of the p	roject site mus
proposed project  Vicinity Map  be included (U  **For off-site disposal the material will be tran	depths (after of the name of the state of th	dredging)  the map from the sheet, street  a drawing the	map, or coun	ty map is pro	eferred).		_	•
proposed project  Vicinity Map  be included (U  **For off-site disposal	depths (after of The name of the J.S.G.S. quades areas provide ansported.	he map from sheet, street a drawing the will be dreet	map, or coun	ty map is pro	eferred).	enchmarks, bea	ms and/or spil	ways, and how
proposed project  Vicinity Map  be included (U  **For off-site disposal the material will be tran	depths (after of the name of the first of th	he map from sheet, street a drawing the will be dreet	map, or counnat includes the	ty map is prone location, o	eferred).	enchmarks, be	ms and/or spill	ways, and how
vicinity Map be included (U**For off-site disposal the material will be trans.  How many cubic yar	depths (after of The name of the J.S.G.S. quades areas provide ansported.	he map from sheet, street a drawing the will be dreet	map, or coun	ty map is pro	eferred).	enchmarks, be	ms and/or spill	ways, and how
proposed project Vicinity Map be included (U **For off-site disposal the material will be tran  1. How many cubic yan Vegetated Wetlands	depths (after of the name of the first of th	he map from sheet, street a drawing the will be dreet	map, or counnat includes the	ty map is prone location, o	eferred).	enchmarks, be	ms and/or spill	ways, and how
vicinity Map be included (U**For off-site disposal the material will be trand. How many cubic yar	depths (after of the name of the first of th	he map from sheet, street a drawing the will be dreet	map, or counnat includes the	ty map is prone location, o	eferred).	enchmarks, be	ms and/or spill	ways, and how
vicinity Map be included (U**For off-site disposal the material will be trans.  How many cubic yas vegetated Wetlands Non-Veg. Wetlands Subaqueous Land	depths (after of the name of the first of th	he map from sheet, street a drawing the will be dreet	map, or counnat includes the	ty map is prone location, o	eferred).	enchmarks, be	ms and/or spill	ways, and how
vicinity Map be included (U**For off-site disposal the material will be trand. How many cubic yar	depths (after of the name of the first of th	he map from sheet, street a drawing the will be dreet	map, or counnat includes the	ty map is prone location, o	eferred).	enchmarks, be	ms and/or spill	ways, and how
vicinity Map be included (U**For off-site disposal the material will be trans.  How many cubic yar  Vegetated Wetlands Non-Veg. Wetlands Subaqueous Land Total	depths (after of the name of the state of th	he map from sheet, street a drawing the will be dreed Dragline	map, or coun nat includes the	ty map is property map is property.	eferred). limensions, b	MAI	ms and/or spill	ways, and how
vicinity Map be included (U**For off-site disposal the material will be trans.  How many cubic yar  Vegetated Wetlands Non-Veg. Wetlands Subaqueous Land Total	The name of the LS.G.S. quades areas provide ansported.  In the name of the LS.G.S. quades areas provide ansported.  In the name of the latest	he map from sheet, street a drawing the will be dreed EW Dragline	map, or countries the diged by/from  Clamshell  g. clay 25%,	ty map is property map is property.  Other  sand 25%, s	Hydra	MAI	ms and/or spill	ways, and how
vicinity Map be included (U**For off-site disposal the material will be trans.  How many cubic yar vegetated Wetlands Non-Veg. Wetlands Subaqueous Land Total  State the comp How will the d	The name of the LS.G.S. quades areas provide a asported.  In the name of the second se	he map from sheet, street a drawing the will be dreed EW Draglins material (e. al be retained)	map, or count that includes the deed by/from Clamshell g. clay 25%, d to prevent to the count of	Other	Hydra Hydra History Hydra Hydra Hydra Hydra Hydra Hydra	MAI	ms and/or spill	ways, and how
vicinity Map be included (U**For off-site disposal the material will be transposed. How many cubic yas vegetated Wetlands Non-Veg. Wetlands Subaqueous Land Total State the comp How will the dedge	The name of the LS.G.S. quades areas provide a asported.  In the name of the second se	he map from sheet, street a drawing the will be dreed [EW   Dragline   material (e. al be retained used for any street   material (e. al be retain	map, or count that includes the deed by/from Clamshell g. clay 25%, d to prevent to y commercia	Other  sand 25%, see-entry into	Hydra Hydra Hitt 50%): the waterway	MAI ulic Dragline	ms and/or spill	Other
vicinity Map be included (U**For off-site disposal the material will be trans.  How many cubic yar vegetated Wetlands Non-Veg. Wetlands Subaqueous Land Total  State the comp How will the dedger.  How will the dredger.	The name of the LS.G.S. quad states provide a sported.  In the name of the language of the lan	he map from sheet, street a drawing the will be dreed to be dreed to be dreed to be detected as the retained used for an elain the open	map, or count that includes the diged by/from  Clamshell  g. clay 25%, d to prevent a y commercial tration plans of the county o	Other  sand 25%, see-entry into l purpose? on a senarate	Hydra Hydra Silt 50%): the waterway Yes e sheet of par	MAI ulic Dragline  No er, e.g. freque	MTENANCE  Clamshell	Other
vicinity Map be included (U*For off-site disposal the material will be trans.)  Vegetated Wetlands Non-Veg. Wetlands Subaqueous Land Total  State the comp How will the degree Will the dredge for mining pro (Apr - Sep), cu	The name of the J.S.G.S. quades areas provide an asported.  The name of the J.S.G.S. quades areas provide an asported.  The name of the areas provide an asported.  The name of the areas provide an asported.  The name of the areas provide an aterial become of the areas provided and the areas provid	he map from sheet, street a drawing the will be dreed to be dreed to be dreed to be detected as the retained used for an elain the open	map, or count that includes the diged by/from  Clamshell  g. clay 25%, d to prevent a y commercial tration plans of the county o	Other  sand 25%, see-entry into l purpose? on a senarate	Hydra Hydra Silt 50%): the waterway Yes e sheet of par	MAI ulic Dragline  No er, e.g. freque	MTENANCE  Clamshell	Other
vicinity Map be included (U**For off-site disposal the material will be trans.  How many cubic yar vegetated Wetlands Non-Veg. Wetlands Subaqueous Land Total  State the comp How will the decomp How will the dredge For mining pro (Apr - Sep), cu access the dred	The name of the J.S.G.S. quades areas provide an ansported.  The name of the J.S.G.S. quades areas provide an ansported.  The name of the ansported ansported ansported ansported.  The name of the ansported	he map from sheet, street a drawing the will be dreed EW Dragline material (e. al be retained used for any plain the open eremoved p	map, or countries the diged by/from  Clamshell  g. clay 25%, d to prevent a y commercial cration plans der operation,	other  Sand 25%, see-entry into a separate temporary si	Hydra Hydra Silt 50%): the waterway Yes e sheet of partorage, handli	MAI  Jlic Dragline  No  e.g. freque  ng of dredged i	ntenand/or spill NTENANCE Clamshell  ncy (e.g. every naterial, how e	Other
Vicinity Map be included (U**For off-site disposal the material will be trans.  How many cubic yar vegetated Wetlands Non-Veg. Wetlands Subaqueous Land Total  State the companion of the compani	The name of the LS.G.S. quades areas provide an areas provided an areas provided an areas provided an areas provided areas	he map from sheet, street a drawing the will be dreed by the last of the last	map, or countries the diged by/from  Clamshell  g. clay 25%, d to prevent a y commercial cration plans of er operation, the VA Dept (	contact the state of Mines. Mi	Hydra Hydra Hitts 50%): the waterway Yes sheet of partorage, handli	MAI  Jlic Dragline  No er, e.g. freque ag of dredged 1	ncy (e.g. every	Other
vicinity Map be included (U**For off-site disposal the material will be trans.  How many cubic yar vegetated Wetlands Non-Veg. Wetlands Subaqueous Land Total  State the comp How will the decomp How will the dredge For mining pro (Apr - Sep), cu access the dred	The name of the LS.G.S. quades areas provide a asported.  In the name of the second se	he map from sheet, street a drawing the will be dreed EW Dragline material (e. al be retained used for any old in the operation of the property of the page area area area.	map, or countries the diged by/from  Clamshell  g. clay 25%, d to prevent a y commercial cration plans of er operation, the VA Dept of the diges are stored average stored to the diges.	of Mines, Miream flow?	Hydra Hydra Hitt 50%): the waterway Yes _ e sheet of partorage, handli inerals, & En	MAI  lic Dragline  No er. e.g. freque ag of dredged i	ncy (e.g. every naterial, how e	Other

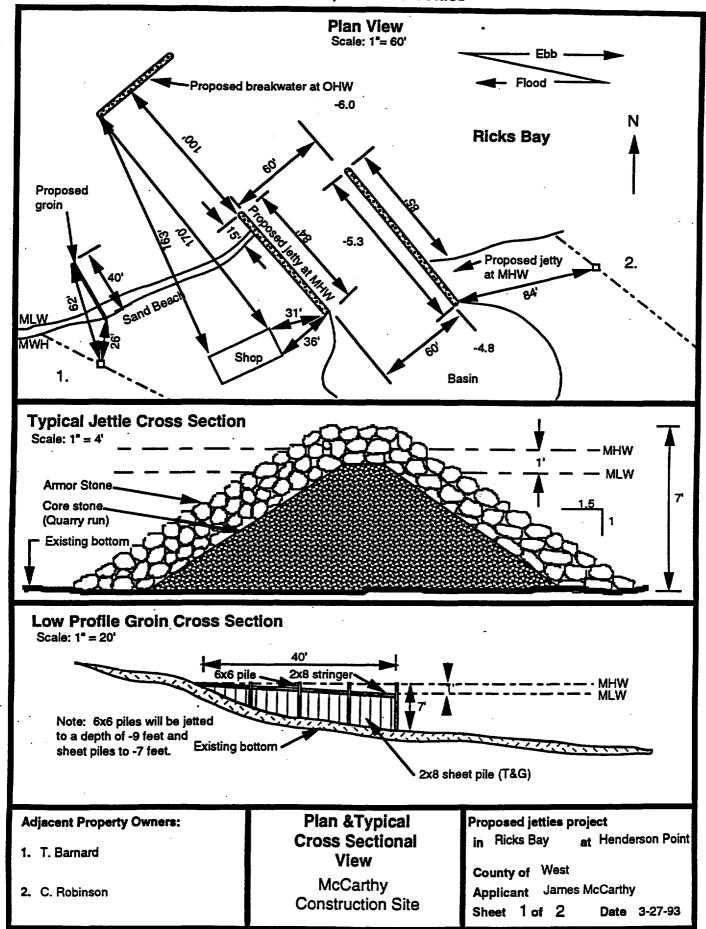
# APPENDIX J, Dredging/ Mining/Excavating



#### APPENDIX K -- GROINS & JETTIES

	Plan	View Drawing
		north arrow
		waterway name
		existing structures location and dimensions of proposed structure
		location and dimensions of proposed structure
		spacing between structures (both existing and proposed) benchmarks showing distances to fixed points of reference
• •		benchmarks showing distances to fixed points of reference
		mean low water and mean high water lines (tidal)
		location of vegetated wetlands at the project site shoreline, property lines, and location of adjacent property owners ebb and flood (tidal) or direction of flow (nontidal) location of existing channels direction of pet sand transport along the shoreline
		shoreline, property lines, and location of adjacent property owners
		ebb and flood (tidal) or direction of flow (nontidal)
		location of existing channels
		direction of net sand transport along the shoreline location of scour protection or spurs (if applicable)
		location of scour protection or spurs (if applicable)
		channelward encroachment relative to mean high/mean low/ordinary high water lines
	Cross	Section Drawing
		length and height of structure relative to mean low water (tidal) or ordinary high water (nontidal)
		mean high and mean low water levels (tidal)
		ordinary high water level (nontidal)
	•	existing contours of the bottom and/or marsh peat surface
		height of channelward end of groin relative to mean low water
		incignit of chamiciwaid chie of groun felative to incan fow water
	End V	View Drawing (if riprap is used for construction)
		design and dimensions of structure (i.e. base & top widths, height, and slope)
		acong in and announced or our extent (1.0. base as up winding norging and stope)
		Vicinity Map The name of the map from which the vicinity map was taken and the exact location of the
		project site must be included (U.S.G.S. quad sheet, street map, or county map is preferred).
	1	What type of material(s) are to be used for the construction?
	2.	a. If using riprap, what will be the average weight of the:
	_,	Core material (bottom layers) pounds per stone
		Armor material (top 2 layers) pounds per stone
		b. Will filter cloth be used? Yes No
	^	
	3.	Are there similar structures in the vicinity of the project site? Yes No If your answer
		is "yes", describe the type and location of the structures:
	4.	Will the channelward end of the structure be marked to show a hazard to navigation? Yes No
	_	
	5.	Has the project been reviewed by the Shoreline Erosion Advisory Service (SEAS)? Yes No
		If yes, please attach a copy of their comments.

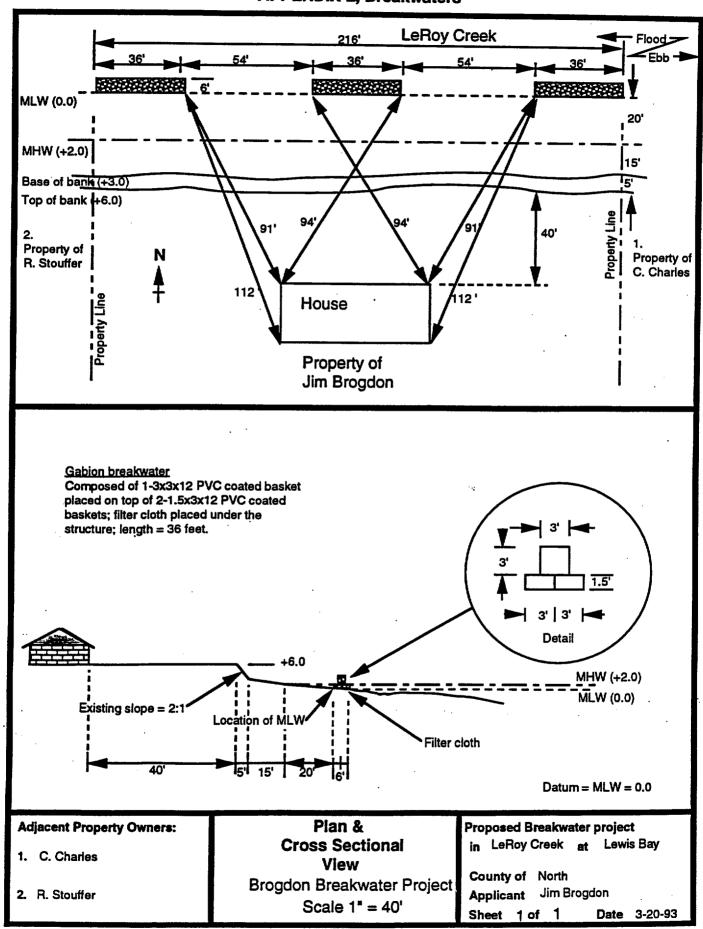
#### **APPENDIX K, Groins & Jetties**



#### APPENDIX L -- BREAKWATERS

	View Drawing
	_ north arrow
	_ waterway name
	existing structures  - bank modes showing distances to fixed points of reference
·	benchmarks showing distances to fixed points of reference
	mean low water and mean high water lines (tidal) ordinary high water line (nontidal) location of vegetated wetlands at the project site
	_ Ordinary right water the (normal)
	shoreline, property lines, and location of adjacent property owners
	ebb and flood (tidal) or direction of flow (nontidal)
	channelward encroachment relative to mean high/mean low/ordinary high water lines
	dimensions of structure
Cros	s Section Drawing
	_ dimensions of the breakwater
	existing contours of the bottom
	mean high and mean low water levels (tidal)
	ordinary high water level (nontidal)
	View Drawing (if riprap or gabion baskets are used for construction) _ design and dimensions of structure (i.e. base & top widths, height, and slope)
	Vicinity Map The name of the map from which the vicinity map was taken and the exact location of the project site must be included (U.S.G.S. quad sheet, street map, or county map is preferred).
1.	What type of materials are to be used for the construction of the breakwater?
2.	Are there similar structures in the vicinity of the project site? Yes No If your answer is "yes", describe the type and location of the structures.
3.	Will filter cloth be used? Yes No
J.	Will filter cloth be used? Yes No

#### **APPENDIX L, Breakwaters**

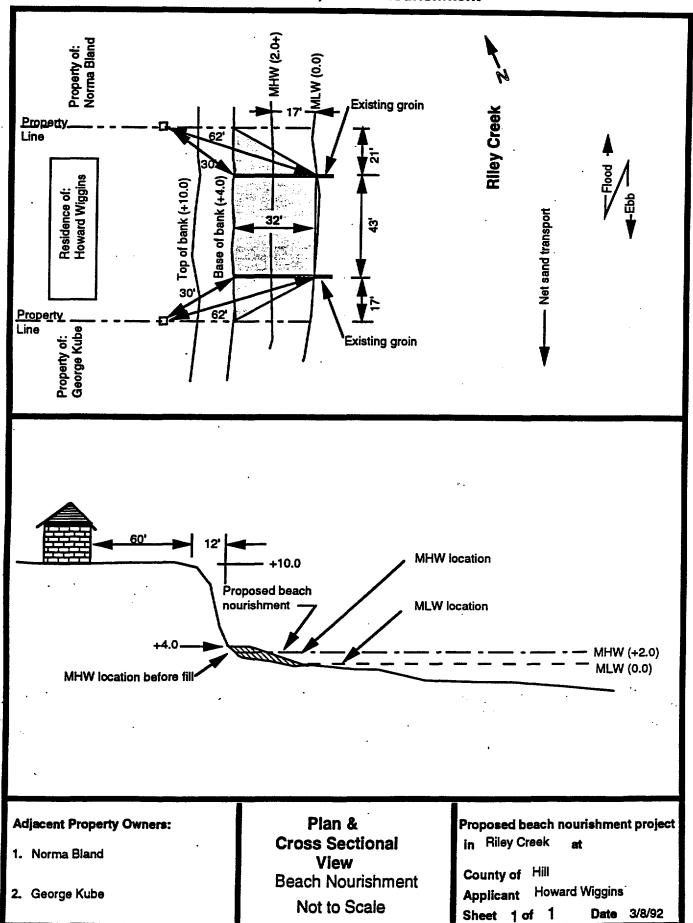


#### APPENDIX M -- BEACH NOURISHMENT

PLEASE COMPLETE THE CHECKLIST AND ANSWER THE QUESTIONS. THE DRAWINGS MUST CONTAIN THE FOLLOWING INFORMATION OR THEY WILL BE RETURNED AS INCOMPLETE:

Pla	n View Drawing
	north arrow
	waterway name
	mean low water and mean high water lines (tidal)
	ordinary high water line (nontidal)
	dimensions of the area to be nourished with benchmarks showing distances to fixed points of reference
	property lines and location of adjacent property owners
	existing structures  location and dimensions of structures proposed to stabilize the area to be nourished
	location and dimensions of structures proposed to stabilize the area to be nourished channelward encroachment of the nourished area relative to mean high/mean low/ordinary high water location of marsh vegetation to be used for stabilization (if applicable)
<b>C</b>	Section Drawing
Cr	oss Section Drawing mean high and mean low water levels (tidal)
_	ordinary high water level (nontidal)
	contour and slope of existing beach
	contour and slope of the nourished area
	groins, breakwaters or other structures existing or proposed to stabilize the nourished area
	elevation at the channelward end of the nourished area
	elevation of vegetation to be planted relative to mean high/mean low/ordinary high water
	Vicinity Map The name of the map from which the vicinity map was taken and the exact location of the project site must be included (U.S.G.S. quad sheet, street map, or county map is preferred).
1.	Provide the following:
_,	a. source of material:
	b. volume of material: cubic yards
	c. type and composition of material (e.g. sand 90%, clay 10%):
	d. mode of transportation to the project site (e.g. truck, pipeline, etc.):
2.	Describe the type(s) of vegetation proposed for stabilization and the proposed planting schedule.

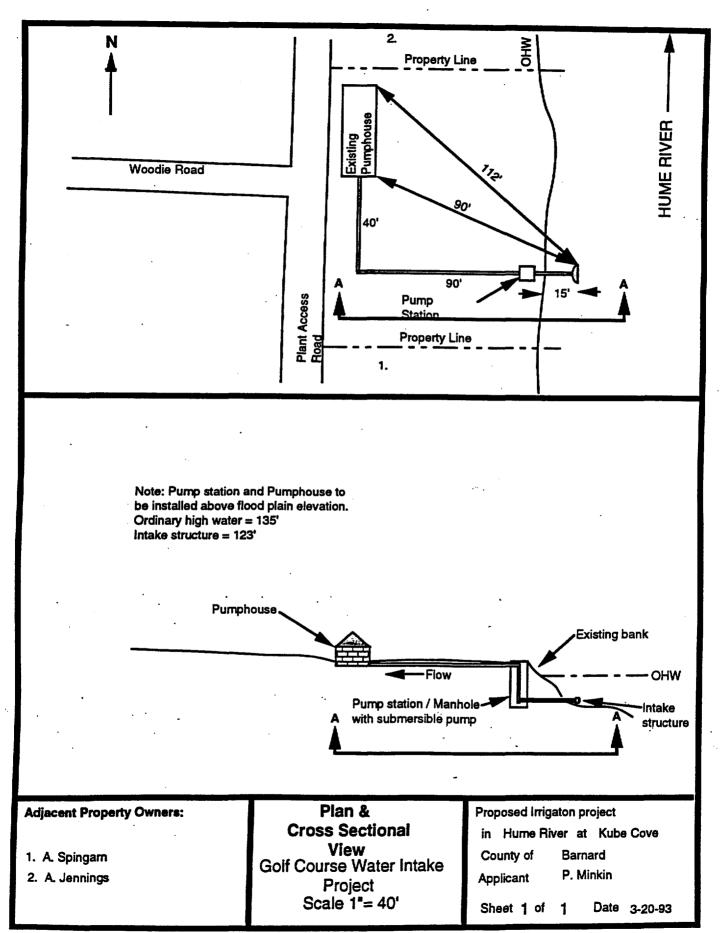
THE DEPARTMENT OF ENVIRONMENTAL QUALITY REQUIRES APPLICANTS TO SUBMIT THE ADDENDUM LOCATED AT THE END OF THIS APPLICATION



## APPENDIX N -- INTAKE-OUTFALL STRUCTURES

	Pl	an View Drawing north arrow				
		waterway name				
	_	existing structures		<b>-</b>		
•		dimensions of structure and benchmarks show	ing distances t	o fixed points of	of reference	
		mean low water and mean high water lines (tid ordinary high water line (nontidal)	ai)			•
		location of vegetated wetlands at the project site	<b>a</b> .		•	
	_	shoreline, property lines, and location of adjace	ent property o	wners	•	•
		ebb and flood (tidal) or direction of flow (nonti	idal)			
Ì		channelward encroachment relative to mean hig	gh/mean low/o	rdinary high wa	iter lines	
	C-	ross Section Drawing				
		existing contours of the bottom and banks				
		intake or outfall pipe				
		mean high and mean low water levels (tidal)				
)		ordinary high water level (nontidal)				
		supporting structures				
		splash apron, if applicable filter cloth				
		Inter Clour				
		Vicinity Map The name of the map from which	h the vicinity i	man was taken	and the exact loc	eation of the
ł		project site must be included (U.S.G.S. quad sl	heet, street ma	p, or county m	ap is preferred).	auon of the
	1.	Provide the following: type & size of pi	ne:	Intake	Outfa	11
		Intakes: daily rate of withdrawal:	mgd velocity	: fns	<del></del>	<u></u>
		screen mesh size:inches	mm	other (spe	cify)	
		Outfalls: daily rate of discharge: mg	,d			
ı	2.	If discharge will be thermally enhanced, provide	e the maximum	n temperature		
	3.	What is the average stream flow at the: In	take site?	cfs (	Outfall site?	cfs
	4.	What management are more and to meet the land				
,	5.	What measures are proposed to prevent bank e				<del></del> -
	J.	Will any structure (wingwalls, splash apron, etc If your answer is yes, indicate the square footage	:.) impact wet	lands or subaqu	eous land?	Yes No
		a your miswer is yes, indicate the square rootage	e and type of a	irea(s) to be im	pacted:	
		·	Tidal	Nontidal	7	
		Vegetated wetlands	sf	sf	-1	•
		Non-vegetated wetlands	sf		_	·
		Subaqueous land	sf	sf	7	
	5.	Can the entire structure or any part of it be place	d landward of	all wetlands?	If no please eve	lain
	_				<del>-</del>	iaiii.
	6.	What is the approximate drainage area and avera	ge stream flov	v? squa	are miles	_ cfs
		•		_		<del>-</del> .
	٠	THE DEPARTMENT OF ENVIRONMENTA SUBMIT THE ADDENDUM LOCATED	AL QUALII AT THE E	I KEQUIRE	S APPLICAN	TS TO

## APPENDIX N, Intake / Outfall Structures



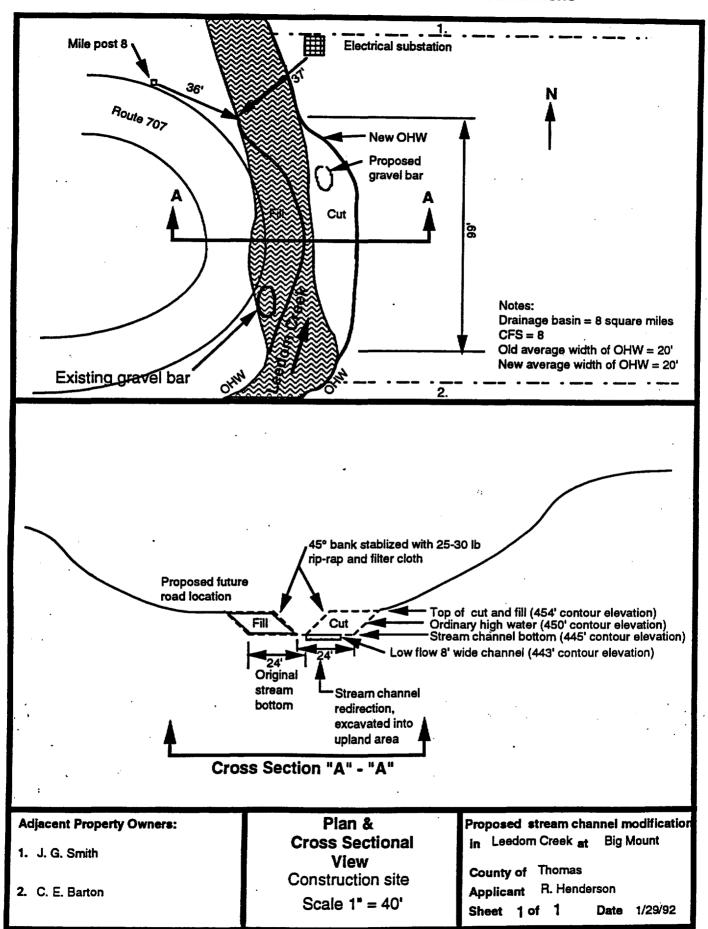
#### APPENDIX O -- NONTIDAL STREAM CHANNEL MODIFICATIONS

PLEASE COMPLETE THE CHECKLIST AND ANSWER THE QUESTIONS. THE DRAWINGS MUST CONTAIN THE FOLLOWING INFORMATION OR THEY WILL BE RETURNED AS INCOMPLETE:

Plan	View Drawing
	_ north arrow
	waterway name
	ordinary high water line
	location length and suddin at the evicting channel
	location, length and width of the proposed channel  benchmarks showing distances to fixed points of reference  width of the street (managing from ordinary high water to ordinary high water)
	henchmarks showing distances to fixed points of reference
	width of the stream (measuring from ordinary high water to ordinary high water)
	width of the stream (measuring from ordinary high water to ordinary high water) location of existing and proposed non-vegetated or vegetated wetlands, bars, islands, riffle and pool
	complexes or other special aquatic sites at the project site
	shoreline, property lines, and location of adjacent property owners
	direction of flow
	location & dimensions of bank stabilization structures
prop	s Section Drawing (Prepare one drawing for the existing channel and one for the osed channel)
	existing and proposed stream channels including depth, base width and top width
	dimensions and slope of bank stabilization structures
	filter cloth
	ordinary high water level
	existing contours of the bottom
	location and dimensions of low flow channel (if applicable)
1.	Vicinity Map The name of the map from which the vicinity map was taken and the exact location of the project site must be included (U.S.G.S. quad sheet, street map, or county map is preferred).  Provide the following:
1.	2) approvimate normal flow rate and desirance area of the original matery hadron
	a) approximate normal flow rate and drainage area of the existing water body:
•	cfs square miles
	h) consequing to seemed flow sets and desirance and of the second of the
	b) approximate normal flow rate and drainage area of the new or modified water body  cfs square miles
•	cfs square miles
	c) method used to stabilize the banks:
	d) type & approximate composition percentage of the existing stream bed (e.g. cobble 35%, rock 45%, sand 20%, etc.):
2.	Will low flow channels be maintained? Yes No
3.	Will any structures be placed in the stream to create riffles, pools, meanders, etc? If "Yes" please explain.

THE DEPARTMENT OF ENVIRONMENTAL QUALITY REQUIRES APPLICANTS TO SUBMIT THE ADDENDUM LOCATED AT THE END OF THIS APPLICATION

#### **APPENDIX O, Nontidal Stream Channel Modifications**



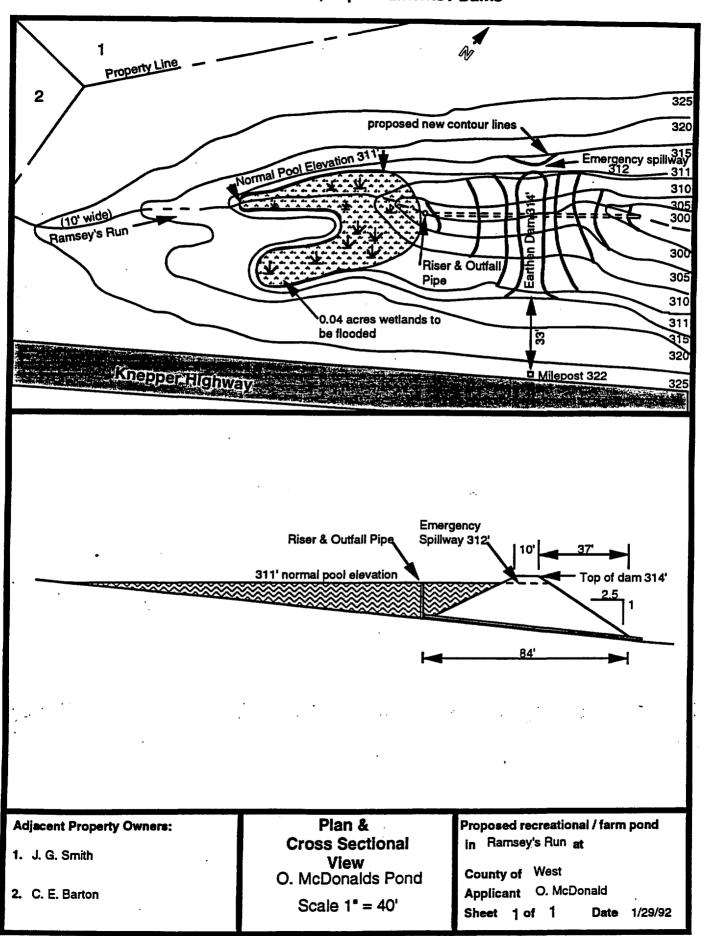
#### APPENDIX P -- IMPOUNDMENTS/DAMS

PLEASE COMPLETE THE CHECKLIST AND ANSWER THE QUESTIONS. THE DRAWINGS MUST CONTAIN THE FOLLOWING INFORMATION OR THEY WILL BE RETURNED AS INCOMPLETE:

	n View Drawing north arrow
	waterway name
	avieting and ntonoged structures
	aimencione of simiculte and hencomarks solvaing distances to fixed holids of reference
	ordinary high water line location of vegetated wetlands at the project site
	location of vegetated wetlands at the project site
	shoreline, property lines, and location of adjacent property owners
	direction of flow
	width of the waterway (measuring from ordinary high water to ordinary high water
	risers
	emergency spillway, if applicable
Cro	oss Section Drawing (Stream)
	base width and height of structure
	existing contours of the bottom
	normal pool elevation and design high and low water elevations, for dams with fluctuating water levels
	(e.g. hydropower or water supply reservoirs)
	risers
	emergency spillway, if applicable
	<ul> <li>Vicinity Map Including the name of the map from which the vicinity map was taken and the exact location of the project site.</li> <li>map showing the area to be flooded (U.S.G.S. quad sheet or other topographic map is preferred).</li> </ul>
1.	Materials to be used for construction (earth, rock, concrete, etc.)?
2.	What will be the impoundment's: a) storage capacity: acre-feet b) surface area: acres
3.	What is the: a) current average flow? cfs b) proposed outflow? cfs c. will the impoundment structure be designed to pass a minimum flow at all times? Yes No If "Yes", what will be the minimum rate of flow? cfs
4.	What is the drainage area of the water body upstream of the proposed impoundment? square miles
5.	Does your project comply with State Dam Safety Criteria? Yes No If your answer is
6.	"No" or "Uncertain", contact the Bureau of Flood Plain Protection at telephone (804) 371-6095.  a. What will be the area of waters or wetlands affected/flooded by the impoundment? acres
	b. How much of impoundment structure will be located on the stream bed?square feet
7.	Are fish ladders being proposed to accommodate the passage of fish? Yes No

THE DEPARTMENT OF ENVIRONMENTAL QUALITY REQUIRES APPLICANTS TO SUBMIT THE ADDENDUM LOCATED AT THE END OF THIS APPLICATION

## **APPENDIX P, Impoundments / Dams**



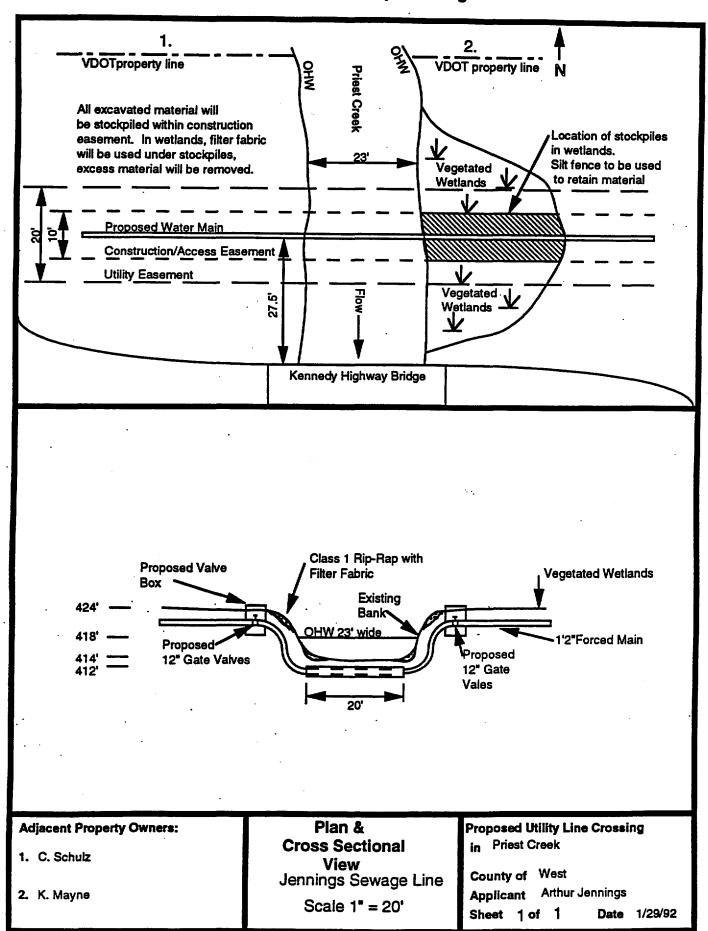
#### APPENDIX Q -- UTILITY CROSSINGS

PLEASE COMPLETE THE CHECKLIST AND ANSWER THE QUESTIONS. THE DRAWINGS MUST CONTAIN THE FOLLOWING INFORMATION OR THEY WILL BE RETURNED AS INCOMPLETE:

	View Drawing
	north arrow
	waterway name
	existing and proposed structures
	dimensions of structures and benchmarks showing distances to fixed points of reference
	mean low water and mean high water lines (tidal)
	mean low water and mean high water lines (tidal) ordinary high water line (nontidal)
	location of vegetated wetlands at the project site
	property lines on both sides of stream with location of adjacent property owners
	width of the waterway (measuring from mean high water to mean high water (tidal) or ordinary high
	water to ordinary high water (nontidal)
	abb and flood (tidal) as dispation of flow (nontidal)
	ebb and flood (tidal) or direction of flow (nontidal)
	type and location of support structures (e.g. towers, poles, platforms)
	location of temporary stockpiles for excavated material (if applicable)
	location of temporary construction access
	location of utility line/maintenance right of way
Cross	Castian Drawing
Cross	Section Drawing
	mean low water level (tidal)
	ordinary high water level (nontidal)
	existing contours of the bottom and bank
	vertical distance above mean high/mean low/ordinary high water for overhead crossings
	depth below stream bottom for submarine crossings
	distance that the structure will cross the waterbody relative to mean low water/ordinary high water
	Vicinity Map The name of the map from which the vicinity map was taken and the exact location of the
	project site must be included (U.S.G.S. quad sheet, street map, or county map is preferred).
1	Describe the meterials to be used and the method of secretary to the section to the section of t
1.	Describe the materials to be used and the method of construction in the order in which the construction will
	be accomplished:
•	
2.	For overhead crossings, if there are overhead crossings or bridges in the area, how high are they relative
	to mean high/low water/ordinary high water?
	to mean inginiow water ordinary mgn water:
3.	If the project is a married line assessing such as will be the assessing to the control of the c
3.	If the project is a power line crossing, what will be the nominal system voltage of the line?
A	Will those be an awaren of amounted material of the No. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10
4.	Will there be an excess of excavated material? Yes No If yes, please describe the
	method of transporting and disposing of the material.
5.	What is the approximate drainage area and average stream flow? square miles cfs
J.	cis
6.	Will excess material be temporarily stockpiled in wetlands? Yes No
	If "Yes", will the stockpiled material be placed on filter fabric or some other type of impervious surface?
	Yes No
	10

THE DEPARTMENT OF ENVIRONMENTAL QUALITY REQUIRES APPLICANTS TO SUBMIT THE ADDENDUM LOCATED AT THE END OF THIS APPLICATION

#### **APPENDIX Q, Utility Crossings**

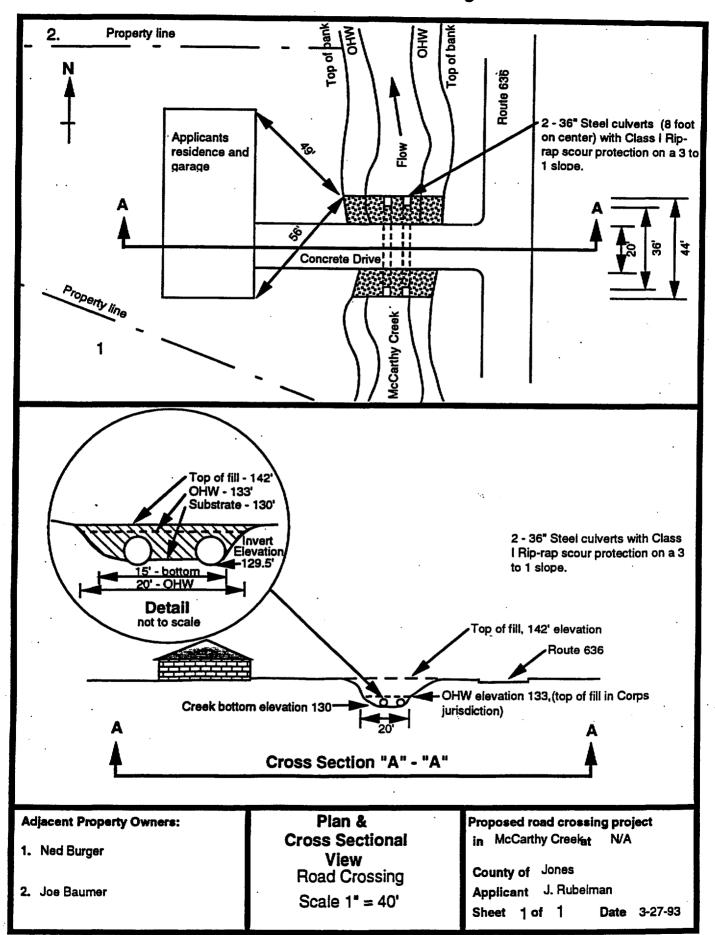


#### APPENDIX R -- ROAD CROSSINGS

PLEASE COMPLETE THE CHECKLIST AND ANSWER THE QUESTIONS. THE DRAWINGS MUST CONTAIN THE FOLLOWING INFORMATION OR THEY WILL BE RETURNED AS INCOMPLETE:

Pla	n View Drawing								
	north arrow								
-	waterway name existing and proposed structures or fill								
	existing and proposed structures or fill dimensions of structures and benchmarks showing distances to fixed points of reference								
	mean low water and mean high water lines (tidal)								
·	_ ordinary high water l	ine (nontidal) wetlands at the project sit		•	•				
·	location of vegetated	wetlands at the project sit	e sion of sdison		•				
	property lines on bot width of the waterwa	h sides of stream with loc y (measuring from mean	auon or aujace bigh water to r	ent property owners	or ordinary high				
	water to ordinary hig	h water (nontidal)		nomi ingli water (ddai)	or ordinary mgn				
		or direction of flow (nont	idal)						
	_ location and type of s	support structures							
	ss Section Drawing								
	mean high and low w	vater levels levels (tidal)							
	ordinary high water le	he stream beds and bank							
	dimensions relative to	o mean high water or ordin	nary high wate	.r					
	height of bridge, if ap	plicable		•					
	_ culverts (indicate size	), if applicable							
	_ culvert invert elevation	ns							
	Vicinity Map The na project site must be in	me of the map from which noluded (U.S.G.S. quad s	h the vicinity r heet, street ma	map was taken and the op, or county map is pre	exact location of the ferred).				
NOT not e	E: Virginia Department xceed 1 foot for all road	of Transportation (VDOTs, culverts and bridges.	) standards req	quire that the backwater	for a 100 year storm				
1. the co	On a separate sheet donstruction will be according	escribe: the materials to be applished including coffered	e used, the met lams (if applica	hod of construction, and	I the order in which				
2.	What is the approximation	ate drainage area and aver	age flow rate of	of the stream? s	q. miles cfs				
3.	Will any fill will be lo	cated on wetlands or sub-	aqueous land?	Yes No	)				
	If your answer is yes,	indicate the square footag	e and type of a	area(s) to be impacted:	,				
			Tidal	Nontidal					
		Vegetated wetlands	st	sf					
	•	Non-vegetated wetlands	sf						
		Subaqueous land	sf	sf					
4.	Have you conducted h	ydrologic/hydraulic studio	o to maife ada		•				
	Yes No	If your answer is "Yes",	please attach a	equacy of the culverts? copy of the study/report	rt.				
5.	If the project is a bridg above mean high/low	e crossing and there are si water or ordinary high wa	imilar crossing ter for the othe	s in the area, what is the	e vertical distance				
Ţ	HE DEPARTMENT	OF ENVIRONMENT	AT. OTTAT IT	V DECITORS ADD	I ICANTE TO				
	SUBMIT THE AD	DENDUM LOCATED	AT THE E	ND OF THIS APPL	ICATION				

#### **APPENDIX R, Road Crossings**



#### AGENT CERTIFICATION OF AUTHORIZATION

I(APPLICANT'S NAI	hereby certify that I have authori ME)	(AGENT'S NAME)	to act on my behalf and
take all actions necessa special conditions attac	ary to the processing, issuance, and a ched.	acceptance of this permit and	any and all standard and
We hereby certify that knowledge.	the information submitted in this app	olication is true and accurate	to the best of our
APPLICANT'S SIGN.	ATURE	AGENT'S SIGNATURE	
DATE	<del>_</del>	DATE	
Completion of this Also, please provide shown on your rece	form will allow the agent to see the name(s) and complete accorded deed.	ign all future application ldress(es) of all legal pr	n correspondence. operty owner(s) as

NAO FM 1022, 30 APR 93

# ADJACENT PROPERTY OWNER'S ACKNOWLEDGEMENT FORM

I, (ADJACENT PROPERTY OWN	, ov VER'S NAME PRINTED)	vn land next to or acro	ss the water from
the land of	•	ed the applicant's proje	ect drawings dated
	itted for all necessary Local, S	State, and Federal perm	its.
(DATE)		-	· · · · · · · · · · · · · · · · · · ·
IHAVE NO COMMENT	DO NOT OBJECT	DO OBJECT	to the project.
The applicant has agreed to contact project.	me for additional comments is	f the proposal changes	prior to construction of th
(Before signing this form, ple	ase be sure you have ch	ecked the appropri	ate box above.)
	•		
			,
ADJACENT PROPERTY OWNER	R'S SIGNATURE	DATE	
project, but, valid complaints	RITING. An objection wil	l not necessarily res	ult in denial of the
process.			
NAO FM 1020, Rev 30 APR 93			
14AO 1141 1020, REV 30 AFR 93			
14AO 141 1020, REV 30 AFR 93			

#### APPLICANT'S AND CONTRACTOR'S ACKNOWLEDGEMENT FORM

I, nave contract	Jed
(APPLICANT'S NAME)	(CONTRACTOR/COMPANY NAME)
to perform the work described in the application signed	d and dated (DATE)
project. We understand that failure to follow the condi- Local, State, and Federal statutes and that we will be list	all Local, State, and Federal permits as required for this tions of the permits may constitute a violation of applicable able for any civil and/or criminal penalties imposed by the OLATIONS AND RELATED STATE CODES.
site to ensure permit compliance. If we fail to provide	permit to any regulatory representative visiting the project the applicable permit upon request, we understand that the ration until it has been determined that we have a properly with all terms and conditions.
APPLICANT'S SIGNATURE	DATE
CONTRACTOR'S SIGNATURE AND TITLE (if applicable)	DATE
CONTRACTOR'S NAME (PRINTED/TYPED) OR NAME OF FIRM	CONTRACTOR'S OR FIRM'S ADDRESS

NAO FM 1021, Rev 30 APR 93

#### Regulatory Agencies

Federal:

U. S. Army Corps of Engineers 803 Front Street Norfolk, Virginia 23510-1096 (804) 441-7652

The Corps of Engineers is responsible for administering a permit program pursuant to Section 10 of the Rivers & Harbors Act of 1899 and Section 404 of the Clean Water Act. Specifically, permits are required for construction, dredging, and filling activities proposed by landowners, businesses, developers, and government agencies in tidal and nontidal rivers, creeks, and tidal and nontidal wetlands. In evaluating projects, the Corps considers all comments received from the public and government agencies and conducts a public interest review that weighs foreseeable project benefits against foreseeable project detriments.

#### Field Offices:

Blackstone Field Office Post Office Box 121 Nottoway, Virginia 23955 (804) 645-8986

Blue Ridge Field Office Tudor Square, Suite 9 209-211 Roanoke Street Christiansburg, Virginia 24073 (540) 382-6740

Dumfries Field Office Plaza South, Suite 102 138 Graham Park Road Dumfries, Virginia 22026 (703) 221-6967

Eastern Shore Field Office General Delivery Accomac, Virginia 23301 (804) 787-3133

State:

Central VA Field Office 444 Abby Lane Howardsville, Virginia 24562 (804) 263-8247 Fredericksburg Field Office 10789 Columbia Drive Fredericksburg, Virginia 22408 (540) 898-3568

Western VA Field Office HCR 32, Box 101-A Staunton, Virginia 24401 (540) 886-4221

Northern Neck Field Office Post Office Box 459 Lively, Virginia 22507 (804) 462-5382

Clinch Valley Field Office Post Office Box 338 Abingdon, Virginia 24212 (540) 623-5259 Richmond Field Office Hanover Business Center 305-B Ashcake Road Ashland, Virginia 23005 (804) 752-7464/7484

Virginia Marine Resources Commission Habitat Management Division
Post Office Box 756
2600 Washington Avenue
Newport News, Virginia 23607-0756
[804] 247-2200

The Virginia Marine Resources Commission serves the citizenry of the Commonwealth of Virginia by combining a public interest review process with effective management, regulation and protection of the State's marine fisheries, submerged lands (state wide) and coastal resources (tidal wetlands and coastal sand dunes/beaches). It is the goal of the Commission's Habitat Management Division to act as stewards of the Commonwealth's submerged lands and ensure the protection and wise use of these coastal lands and natural resources through the implementation of a regulatory review process and permitting program.

Department of Environmental Quality
Post Office Box 10009
Richmond, Virginia 23240-5000
(804) 527-5061

One branch of the Department of Environmental Quality, the Virginia Water Protection Program, is responsible for the administration of the water quality programs delegated to the Commonwealth under the Clean Water Act

and as required by the State Water Control Law. Under both State and Federal Law, the Department functions as the principal water quality management agency within the Commonwealth of Virginia. The goal of the Virginia Water Protection Program is to ensure the protection of the beneficial uses of State waters including nontidal wetlands, prevent degradation of valuable water resources and to work toward the restoration of waters whose quality has been degraded. The Department issues permits for all activities which may result in the physical, biological or chemical alteration of State waters.

#### Resource Agencies

Federal:

U. S. Environmental Protection Agency
Wetlands Section
841 Chestnut Street 3ES42
Philadelphia, PA 19107
(215) 597~3360

The Environmental Protection Agency oversees compliance with federal environmental laws, including the Clean Water Act, the Clean Air Act, Superfund, the National Environmental Policy Act, etc. The Agency provides advice and recommendations to the Corps of Engineers to ensure that all authorized projects avoid and minimize adverse environmental impacts. Important features considered during Clean Water Act project reviews include but are not limited to impacts on water quality, flood storage, fisheries, and wildlife habitat.

U. S. Fish & Wildlife Service
Virginia Field Office
Post Office Box 480
Mid-County Centre, U. S. Route 17
White Marsh, Virginia 23183
(804) 693-6694

The objectives of the Department of the Interior and the U. S. Fish & Wildlife Service (Service) are to conserve fish and wildlife resources and their habitats and to protect public trust rights of use and enjoyment associated with waters of the United States. The Service provides advice and recommendations to the Corps of Engineers to ensure that all authorized projects are the least environmentally damaging alternative and in the public's interest in safeguarding fish and wildlife resources from unnecessary loss and degradation. The Service is also responsible for assisting the Corps to meet their responsibilities under Section 7 of the Endangered Species Act

National Marine Fisheries Service
Management Division
Oxford Laboratory
Oxford, Maryland 21654
(301) 226-5771

President's Advisory Council on Historic Preservation
The Old Post Office Building
1100 Pennsylvania Avenue, Suite 809
Washington, DC 20004
(202) 786-0505

The President's Advisory Council on Historic Preservation (Council) provides comments to the Corps of Engineers (Corps) on undertakings that affect historic properties. The Council's goal is to accommodate historic preservation concerns with the needs of the Corps' Regulatory program through the Section 106 process. Section 106 of the National Historic Preservation Act (NHPA) requires federal agencies with jurisdiction over federally licensed undertakings to take into account the effects of their undertakings on historic properties (defined as districts, buildings, structures, or archaeological sites which are included on or are eligible for inclusion on the National Register of Historic Places) and to offer the Council the opportunity to comment on the project's effects. The Council encourages consideration of historic preservation concerns during the early planning stages of a project through consultation with the Corps, the State Historic Preservation Officer and other interested persons.

Virginia Department of Game & Inland

State: Fisheries

Environmental Officer
Post Office Box 11104
Richmond, Virginia 23230-1104
(804) 367-8999

The Virginia Department of Game & Inland Fisheries (VDGIF) is the primary wildlife and freshwater management agency in the Commonwealth, and has legal jurisdiction over state or federally endangered or threatened species, excluding insects and plants. VDGIF is a consulting agency under the U.S. Fish & Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.), and provides environmental analysis of projects or permit applications coordinated through the Virginia Marine Resources Commission, the Virginia State Water Control Board, the U.S. Army Corps of Engineers, the Federal Energy Regulatory. Commission, and other state or federal agencies. The department's role in these procedures is to determine likely impacts on fish and wildlife resources and habitats, and to recommend appropriate measures to avoid, reduce, or mitigate for those impacts. Primary issues of concern to VDGIF include impacts upon upland, wetland, aquatic fish & wildlife and their habitats; protection of instream flow; endangered or threatened species; and impacts upon streams or other surface waters and interconnected groundwaters. Sediment and erosion control, water quality protection, and disposal or handling of hazardous or toxic materials are also of concern to the Department.

Virginia Institute of Marine Science Wetlands Section Gloucester Point, Virginia 23062 (804) 642-7000

The Wetlands Advisory Program of the Virginia Institute of Marine Science (VIMS) provides scientific and technical advice for the use of all participants in the shoreline permit process. To accomplish this, a written impact assessment report is prepared for most projects requiring a wetlands or subaqueous bed permit. The report describes the marine environmental impacts of the proposed activity and suggests alternatives and/or modifications which will lessen any significant adverse effects to aquatic resources resulting from the proposal. Copies of the advisory report are provided to the applicant and/or the agent and all regulatory/resource agencies.

Virginia Department of Conservation & Recreation
Division of Soil & Water Conservation
Shoreline Erosion Advisory Service (SEAS)
Post Office Box 1024
Gloucester Point, Virginia 23062
(804) 642-7121

The Shoreline Erosion Advisory Service is a technical section of the Department of Conservation & Recreation. The SEAS program provides technical advice regarding environmentally sound protective measures for shoreline erosion control. The SEAS service is available upon request to property owners throughout Virginia's tidal region.

Virginia Department of Historic Resources 221 Governor Street Richmond, Virginia 23219 (804) 786-3143

The Virginia Department of Historic Resources (VDHR) represents the interests of the Commonwealth and its citizens in preserving Virginia's cultural heritage. The director of the VDHR is the State Historic Preservation Officer (SHPO). The role of the SHPO is to assist the Corps in meeting its responsibilities under Section 106 of the National Historic Preservation Act. The VDHR assists the Corps with identifying historic properties, with assessing effects upon them and in considering alternatives to reduce, avoid or mitigate a project's adverse effects.

#### Local Regulatory Agencies (Wetlands Boards)

Accomack County:	(804) 787-572	New Kent County:	(804)	966-9861
Cape Charles County:	(804) 331-325			247-8437
Charles City County:	(804) 829-921			441-2152
Chesapeake:	(804) 547-624		•	678-5872
Colonial Heights:	(804) 520-927	the management and the same		580-8910
Essex County:	(804) 443-495			868-7151
Fairfax County:	(703) 324-121			393-8836
Fredericksburg:	(703) 372-117		•	335-6830
Gloucester County:	(804) 693-404		-	333-3415
Hampton:	(804) 727-614			659-8668
Hopewell:	(804) 541-226		• •	934-3111
Isle of Wight:	(804) 357-319		•	294-5210
James City County:	(804) 253-662			426-5790
King George County:	(703) 775-711			493-0121
King William County:	(804) 769-492	- Land and a second and a second as a seco		843-3330
Lancaster County:	(804) 462-522			220-6130
Mathews County:	(804) 725-502			890-3538
Middlesex County:	(804) 758-430		(004)	000-3036

#### Soil & Water Conservation's Erosion & Sedimentation Control Offices

Abingdon
252 W. Main Street, Suite 3
Abingdon, Virginia 24210
(703) 676-5528

Dublin
Post Office Box 1506
Dublin, Virginia 24084
(703) 831-4008

Staunton
Route 4, Box 99-J
Staunton, Virginia 24401
(703) 322-9991

Tappahannock
Post Office Box 1425
Tappahannock, Virginia 22560
(804) 443-6752

Chase City 411 Boyd Street Chase City, Virginia 23924 (804) 372-2191

Richmond 217 Governor Street, 3rd Floor Richmond, Virginia 23219 (804) 371-7489

Suffolk 1548 Holland Road Suffolk, Virginia 23434 (804) 925-2468

Warrenton 98 Alexandria Pike, Suite 33 Warrenton, Virginia 22186 (703) 347-6420

These offices may be able to provide advice on erosion and sedimentation controls for shoreline and streambank erosion as well as storm water management.

#### FEDERAL WETLANDS DETERMINATIONS

Delineations are to be performed using the appropriate method as directed in the current Federal manual.

If you would like the Corps to verify a wetlands delineation, the following information should be provided:

A Plan View Drawing showing:

all proposed development (if available)
location of the wetlands at the site with benchmarks
property lines and location of adjacent property owners
existing structures at the site
sampling locations
location of wells (if applicable)

Please indicate whether the boundaries of the wetland at the project site have been flagged.

A Vicinity Map with the name of the map from which it was taken and the exact location of the project site should be included (U.S.G.S. quad sheet, or other topographic map is preferred).

In addition to the drawings, as much of the following information as possible should be provided.

Completed data sheets
Aerial photograph(s) of the site
Soil survey with soil descriptions
National Wetlands Inventory Map
FEMA map
Site history/Prior land use
Any other supporting documents to be considered

## FEDERAL PENALTIES FOR VIOLATIONS AND RELATED STATE CODES

#### U. S. Army Corps Of Engineers

Section 10 of the Rivers and Harbors Act of March 1899 (33 U. S. C. 401, 403, & 404) - Penalties as provided by Section 12 of the Act (33 U. S. C. 406) are not less than \$500 or more than \$2,500 or 1 year imprisonment or both.

#### U. S. Army Corps Of Engineers & Environmental Protection Agency

Section 404 of the Clean Water Act (33 U. S. C. 1251 et seq.) - Criminal penalties are not less than \$2,500 per day or more than \$25,000 per day or up to 1 year imprisonment or both; after the first violation (conviction) not more than \$50,000 per day or up to 2 years imprisonment or both (33 U. S. C. 1319 (c) (1)). Civil penalties may be as much as \$25,000 for each day of violation 33 U. S. C. 1319 (d) and 33 U. S. C. 1344 (s) (4).

Injunctive Relief - Court order to remove, restore, or comply with other conditions.

False Statements - Falsifying information in the application may result in a maximum fine of \$20,000 or up to 6 months imprisonment or both.

The Environmental Protection Agency also has the authority to assess administrative penalties up to \$125,000 for violations of Section 404 of the Clean Water Act.

#### VIRGINIA MARINE RESOURCES COMMISSION

Title 28.2 of the Code of Virginia

Chapter 12 - Submerged Lands

Article 1 - Ownership & Uses of Submerged Lands

Article 2 - Enforcement & Penalties

Chapter 13 - Wetlands

Article 1 - General Provisions

Article 2 - Wetlands Zoning Ordinances & Wetlands Boards

Article 3 - Permits & Review

Article 4 - Enforcement & Penalties

Chapter 14 - Coastal Primary Sand Dunes & Beaches

Article I - General Provisions

Article 2 - Coastal Primary Sand Dune Ordinance & Boards

Article 3 - Permits & Review

Article 4 - Enforcement & Penalties

For violations under each Chapter civil charges up to \$10,000.00 may be assessed by the Commission or a local Wetlands Board, or civil penalties up to \$25,000.00, for each day of the violation, may be assessed by an appropriate circuit court.

#### DEPARTMENT OF ENVIRONMENTAL QUALITY

Chapter 3.1, Section 62.1-44, may assess civil penalties of up to \$25,000 per day, willful or negligent violations are punishable by not more than 12 months in jail and a fine of not less than \$2,500 or more than \$25,000. Persons convicted of a felony under this section is punishable by not less than 1 year, nor more than three years in jail, fines not less than \$5,000, nor more than \$50,000 for each violation. Should the felony involve imminent danger of death or serious bodily harm, it is punishable by not less than 2 years, nor more than 15 years in prison and a fine of not less than \$250,000. A defendant who is not an individual, convicted of this same felony shall be sentenced to pay a fine not exceeding the greater of \$1,000,000 or three times the economic benefit that would have been realized by the activity producing the offense.

#### Privacy Act Statement

The Department of the Army permit program is authorized by Section 10 of the Rivers and Harbors Act of 1899, Section 404 of the Clean Water Act, and Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972. These laws require that individuals obtain permits that authorize structures and work in or affecting navigable waters of the United States, the discharge of dredged or fill material into waters of the United States, and the transportation of dredged material for the purpose of dumping it into ocean waters prior to undertaking the activity. Information provided in the joint permit application will be used in the permit review process and is a matter of public record once the application is filed. Disclosure of the requested information is voluntary; however, it may not be possible to evaluate the permit application or issue a permit if the information requested is not provided.

#### **Processing Procedures**

Concurrent processing - When your application is received by VMRC, an application number is assigned. This number will be used when referring to your project. Copies of the application will be forwarded to the regulatory agencies by VMRC. Because of differences in jurisdiction and laws, these agencies will perform separate but concurrent reviews of your project.

Site Inspections - Site inspections are necessary to evaluate proposals before, during, and after a permit is issued. Photographs of the project sight will be taken during the on-site evaluations. Failure to allow an authorized representative to enter or to take photographs of conditions at the project site may result in permit denial.

Joint State/Federal Public Notice - A Joint Public Notice may be used to advertise project plans. Comments received in response to the Public Notice are considered by each agency in reaching their individual decisions on the project. Certain types of projects may qualify for Corps general permits. In such cases, a joint public notice will not be prepared. The affected state and local agencies will then follow their individual regulations for advertising the project which may require publication in a local newspaper.

Commenting on Notices - Adjacent property owners and others who have expressed interest in a particular area are furnished a copy of the joint public notice. In addition, local and state agencies may place a public notice in the local newspaper. Anyone may comment on a public notice. Comments must be made in writing and received by the close of the comment period specified in the public notice.

Public Hearings - At the close of the Public Notice comment period Public Hearings may be held by Local, State, or Federal agencies.

All applications requiring a local wetlands permit are considered at a public hearing held by the local wetlands board.

Purpose of Federal Hearings - The purpose of a Federal public hearing is to acquire information that is pertinent to the decision making process and cannot be obtained through other means.

Federal Hearing Procedures - Most projects usually affect only the applicant and the surrounding neighborhood. <u>Very few projects</u> require a public hearing. When a hearing is necessary, a 30 day public notice is sent out announcing the date, time and place of the hearing. A decision on the project will not be made at the hearing. A 10 day comment period follows the hearing to allow for additional facts or information to be submitted before the District Engineer makes a final decision.

State/Local Hearing Procedures - Projects affecting tidal wetlands will be heard by the appropriate Local Wetlands Board after a notice of Public Hearing has been advertised at least once a week for two consecutive weeks in a local newspaper. You should consult your local wetlands board to determine who bears the cost for this advertisement. VMRC will conduct the hearings for localities with no wetlands board.

Commission Meetings - Protested applications for a Virginia Marine Resources Commission permit which cannot be resolved, projects costing over \$50,000 involving encroachment upon or over State-owned subaqueous land, and all projects affecting State and local wetlands in localities without a wetlands board will be scheduled for Public Hearings by VMRC at their regularly scheduled monthly commission meetings. All interested parties will be officially notified regarding the date and time of the hearing, as well as informed of Commission meeting procedures. The Commission will make a decision on the project at the meeting unless a decision for continuance is made.

Joint Processing Meetings - Pending applications that do not meet the criteria of the Corps general permits are discussed at a joint processing meeting attended by representatives from the regulatory/advisory agencies. Project impacts as well as possible alternatives are discussed. These meetings are designed to reduce processing time by eliminating duplication of agency efforts.

Virginia Water Protection Permits - All applications and permits will be processed in accordance with the Virginia Water Protection Permit Regulations (VA 680-15-02) and with Procedural Rule No. 1.

Finalization of Process - If the project is approved, a permit is sent to the applicant. In some cases a notarized signature as well as processing fees and royalties are required before the permit is validated. If the project is denied, the reason(s) for denial will be provided in writing.

If you have questions about completing the application or drawings or on the permitting process, call any of the agencies listed on pages 51-54 of this guide.

#### Most frequently asked questions

What is the U. S. Corps of Engineers and what do they do, and why? The Corps of Engineers is a branch of the U. S. Army. You may not realize that the Corps' responsibilities go far beyond bridge and dam building. Specifically, the Corps' Regulatory Branch is responsible for regulating construction, dredging, and filling activities in waters of the United States including tidal and nontidal wetlands. Congress charged the Corps with administering Section 10 of the Rivers and Harbors Act of 1899 which prohibits obstructing or altering navigable waters of the U. S. without a permit. In 1977, the Corps was also charged with administering Section 404 of the Clean Water Act which prohibits the unauthorized discharge of dredged or fill material into waters, including tidal and nontidal wetlands of the United States.

What are nationwide and regional permits? A nationwide permit is a form of general permit which authorizes certain activities throughout the nation in many cases without the property owner needing to notify the Corps provided certain conditions are met. However, an application may still be required for State review. A regional permit is a general permit issued by division or district engineers on a regional basis. The Norfolk District has issued regional permits for some 20 different activities.

How do I know if I need a permit? Any activity (structure, dredging, certain land clearing, filling, etc.) which obstructs, alters, or discharges fill into waters of the United States including tidal and nontidal wetlands may require a permit from the Corps, the Virginia Marine Resources Commission, the Virginia Department of Environmental Quality and or the local wetlands board. You may call the appropriate agency listed at the front of the joint application booklet for further guidance.

Will someone visit the site of my proposed project and tell me what is the best course of action? If you believe a site visit would assist you in developing your project plans, you may call the Corps.

What is the permit process? The permitting process begins with you. You complete a Joint Permit Application and send it to the Virginia Marine Resources Commission (VMRC). VMRC assigns an application number and sends copies of your application to DEQ, your local wetlands board and to the Corps. Projects not satisfying the requirements of a nationwide or regional permit may need to be advertised by public notice. The Corps is required to coordinate such applications with the Environmental Protection Agency, the U. S. Fish and Wildlife Service, and the National Marine Fisheries Service. The Corps considers the view of these agencies as well as comments received from the public in their evaluation of the project.

What are the penalties if I do not follow the permit process? The agencies are responsible for enforcing the regulations they administer. Reported or detected violations will be investigated. Should a violation be confirmed, appropriate action will be pursued. (See page 57 for specific Federal and State penalties.)

Where can I get further information about wetlands, wildlife, and the regulatory process? There are many sources. For information regarding wetlands, wildlife and the regulatory process you may contact any of the regulatory and advisory agencies listed on pages 51-54 of this booklet. The following agencies may also provide valuable information about aquatic resources, wetlands, wildlife and thier habitats:

Chesapeake Bay Local Assistance Department Environmental Protection Agency Wetlands Hotline 1-800-243-7229 (1-800-CHESBAY)

ironmental Protection Agency Wetlands Hotline 1-800-832-7828

As a reminder, your local wetlands board (mostly in tidal areas) or your local Soil & Water Conservation District my also provide assistance and advice on development in or affecting wetlands.

Does VMRC have jurisdiction in areas other than Tidewater? Yes, in State-owned submerged lands in nontidal areas. This includes all the beds of the bays, rivers and creeks not conveyed by special grant or compact according to law. All perennial streams may be under VMRC jurisdiction.

# Definitions, Special Terms, & Abbreviations

Acre - Foot Unit of volume of water that would cover one acre to a depth of one foot; equal to 43,560 cf.

Adjacent Property Owner - Individuals owning property that shares the boundary (common property line) of the property at the project site.

Anadromous fish - Fish that swim upstream to spawn.

Beach Nourishment - The placement of suitable sand on a shore to restore and stabilize an eroding beach.

Benchmark - A fixed point of reference used in a measure that under normal circumstances will not move or be changed. For example: the distance from the corner of a house to a telephone pole, or an official government survey marker.

Breakwater - A fixed or floating structure usually constructed parallel to the shoreline to protect the shoreline

from erosion by reducing the wave energy that reaches the shore.

Bulkhead - an upright structure built to protect an eroding shoreline from the force of water.

Community Facility for Boat Moorings - A facility operating under public or private ownership which provides mooring for boats whether on a free, rental, or fee basis or for the convenience of a particular group of individuals.

Complete Application - The basic application, all applicable appendices, and drawings properly filled out and completed.

CFS -Cubic feet per second.

Cubic Yard - A measure of volume; length x width x depth = volume (27 cubic feet = 1 cubic yard).

Dredged Material - Material that is excavated or dredged from waters of the United States.

Estuarine - River systems that extend upstream to an imaginary line that closes the mouth of the river, bay or sound. Generally, the term estuary refers to the portion of the river from the ocean to the point where the ocean salts are diluted by freshwater from either river currents or upland runoff.

FPS - Feet per second.

Fill Material -Any material that will change the bottom elevation of an aquatic area, wetland, or water body.

Finger Pier - A small walkway generally built perpendicular to a pier for the purpose of providing access to and aid in mooring a boat. (Often referred to as a catwalk, L-head or T-head).

Filter Cloth - A thin cloth-like material normally used behind bulkheads or riprap to retain fill material while

allowing water to pass through it.

General Permit -A Department of the Army (Corps) permit that is issued on a nationwide or regional basis for a category or categories of activities when the work is similar in nature and causes only minimal individual and cumulative environmental impacts.

Groin - A structure built perpendicular to the shore whose main function is to trap and retain moving sediments. Intermittent Stream - A stream that has flowing water at some times and is dry at other times.

Intertidal Zone - The area of land that is submerged at high tide and exposed at low tide.

- Jetty A structure, much like a groin, that is built alongside a channel or harbor entrance to prevent sand from building up in the channel and obstructing navigation. Jetties are seldom low profile since their main purpose is to maintain a channel opening.
- Joint Public Notice A public notice that satisfies the advertising requirements of the Virginia State Water Control Board, the Virginia Marine Resources Commission, the Tennessee Valley Authority, and the Corps of Engineers.

Linear Feet - The total footage of a structure measuring in a continuous line along the structure.

Low Profile Groin - A groin design where the height of the structure is gradually lowered so the channelward end is below mean low water which allows sand to bypass the structure (once the structure is filled) so that

beaches downdrift of the groin will still receive sand.

Marina - Any installation operating under public or private ownership which provides mooring (not including paddle or rowboats), sale, rental, equipment, supply, or service for the convenience of the public or their leases, renters, or users of their facilities.

Marsh Peat Surface - The surface of the area containing the roots of the wetland vegetation. Also referred to as the wetland substrate.

• Mean High Water (MHW) - The average elevation of high water in tidal areas.

Mean High Water Line - A contour line on a drawing that shows the landward limits of an average high tide. Mean Low Water (MLW) - The average elevation of low water in tidal areas.

Mean Low Water Line - A contour line on a drawing that shows the channelward limits of an average low tide.

MGD - Million gallons per day.

Mudflats - Nearly level areas without vegetation that are covered during high water and exposed at low water.

Nationwide Permit - Nationwide permits are a type of general permit that authorize certain specified activities nationwide. If certain conditions are met, the specified activity may be undertaken without the need for an individual or regional permit.

Navigable Waters of the United States - Waters of the United States that are subject to the ebb and flow of the tide, and/or are presently used, or have been used in the past, or may be susceptible to use for the transport

of interstate or foreign commerce.

Nontidal Waters - Waterways or impoundments not subject to the periodic rise and fall of the tide.

Non-Vegetated Wetlands - State and Local Definition: The Commonwealth of Virginia has defined these areas as follows: Non-vegetated wetlands include the land lying between and contiguous to mean low water to an elevation of mean high water not otherwise considered "vegetated wetlands". Generally, this is any area between mean low water and mean high water which does not exhibit or support vegetation. These areas include mudflats, sand beaches, eroding shorelines, etc.

Ordinary High Water (OHW) - The average elevation of high water in nontidal areas.

Ordinary High Water Line - A contour line on maps of nontidal waterfront property that shows the landward limits of normal high water.

Perennial Stream - A stream that has flowing water year round and is usually indicated by a solid blue line on

U.S.G.S. quadrangle maps.

Pre-Discharge Notification (PDN) - Notification required by the Corps of Engineers on specific projects that may meet the criteria of certain Nationwide Permits.

Put & Take Trout Waters - Cool, clear, freshwater streams that are stocked with various species of trout.

Regional Permit - Regional permits are a type of General Permit that may be issued by a division or district engineer for activities within a specific geographic area.

Retaining wall - An upright structure built to prevent property from slumping into a waterway.

Revetment - A facing, usually made of stone or concrete, installed to protect an eroding shoreline from the force of water.

Riparian Rights - The rights of a person owning land bordering on a water body to reach navigable water.

Riprap - A layer of material such as stone or chunks of concrete on an embankment slope to prevent erosion.

Splash Apron - A structure that is usually made of riprap or concrete and placed at the outlet of a pipe to absorb the initial impact of the flow and reduce the flow velocity to a level which will not erode the receiving channel or area.

**Spur** - A short structure, normally less than 20 feet in length, built perpendicular to a groin for the purpose of reducing erosion or scour downdrift of the groin.

Square Feet - A measurement of area (length x width = area),

State Waters - All water; on the surface and under the ground, wholly or partially within its jurisdiction.

Subaqueous Land - Land which is submerged below mean low water (channelward of the mean low water line) in tidal areas or below ordinary high water (channelward of the ordinary high water line) in nontidal areas.

Tidal Waters - Waters subject to a periodic rise and fall in elevation caused by the moon and sun and occurring in a cyclic manner, normally every 12 hours.

Trout waters - Cool, clear, freshwater streams that provide habitat for various species of trout. Trout cannot

survive in waters warmer than 68 degrees.

Vegetated Shallows - Shallow water areas that support submerged aquatic vegetation.

Vegetated Wetlands - State and Local Definition: The Commonwealth of Virginia has defined these areas as follows: Vegetated wetlands include the land lying between and contiguous to mean low water to an elevation above mean low water equal to one and one-half times the mean tide range at the site of the proposed project and upon which one or more species of tidal wetland plants is growing. Generally, this is the land between and adjacent to the range of mean high water and mean low water which supports at least one species of wetland vegetation. This definition includes the land within one and one-half times the range of the average tide at the site. State and Local wetlands are limited to tidal areas of the commonwealth.

Federal Definition - The Government of the United States has defined wetlands as follows: Those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Federal wetlands generally include swamps, marshes, bogs, and similar areas. It should be noted in many cases the federal definition of wetlands includes areas at higher elevation than one and one-half times the mean high tide range. Federal wetlands are not limited to tidal areas.

Vernal Pools - Pools that may only seasonally have standing water. Several endangered species are dependant

on vernal pools for their reproduction and continued existence.

Waters of the United States - Coastal (including territorial seas) and inland waters, lakes, rivers, and streams that are navigable waters of the United States, including adjacent wetlands. PLUS: Tributaries to navigable waters of the United States, including adjacent wetlands. (Man-made, nontidal drainage and irrigation ditches excavated from dry land, not from wetlands, are not considered to be tributaries.) PLUS: Interstate waters and their tributaries, including adjacent wetlands.



# CERTIFICATE OF COMPLIANCE WITH ARMY CORPS OF ENGINEERS, NORFOLK DISTRICT REGIONAL PERMIT RP-17 FOR PRIVATE PIERS

I,	, hereby certify that I have read and understand all
conditions of th	e effective Regional Permit RP-17, issued by the Army Corps of Engineers,
Norfolk Distric	t, Norfolk, Virginia, regulating the construction, maintenance, and repair of
private, non-co	mmercial piers & mooring piles in certain navigable waters of the United States
within the Con	monwealth of Virginia. The proposed (work) to be located at:
	with all conditions set forth in RP-17.
any regulatory fail to provide will have the o	available a copy of this certification and any other documents required by RP-17 to representative authorized to visit the project site to ensure permit compliance. If I the required documentation upon request, I understand that the representative ption of stopping work at the project site until it has been determined that I am in with all terms and conditions set forth in the regional permit.
	Signature of Property Owner or Agent
	Date

NOTE: DO NOT SIGN THIS FORM IF YOU ARE CONSTRUCTING A BULKHEAD, RIPRAP REVETMENT, OR PERFORMING ANY OTHER ACTIVITY NOT COVERED BY RP-17. DO NOT SIGN THIS FORM IF YOU HAVE NOT READ THE TERMS AND CONDITIONS OF RP-17. YOU MAY CONTACT THE CORPS AT (804) 441-7652 FOR A COPY OF THE PERMIT.

NAO FL 17 Rev 30 APR 93

#### **ADDENDUM**

#### DEPARTMENT OF ENVIRONMENTAL QUALITY ADDITIONAL INFORMATION FOR VIRGINIA WATER PROTECTION PERMITS

The following information is required for all applications unless otherwise noted:

1. § 62.1-44.15:3 of State Water Control Law requires that before the Department may consider any application for a permit to be complete, that the applicant provide the Executive Director with a notification from the local governing body of the county, city or town in which the discharge is to take place that the location and operation of the facility is fully consistent with all ordinances adopted pursuant to Chapter 11 (§ 15.1-427 et seq.) of Title 15.1. A form for local government signature is included with this appendix. Please note that the local governing body must be presented with the Joint Permit Application. Failure to fulfill this requirement will prevent processing of your application and may result in the administrative denial of your request.

2.	3.
Latitude:	Hydrologic
Longitude:	Unit Code (HUC):
* This information is found on the <u>Hydrologic Unit N</u>	dap - State of Virginia published by the U.S. Geological survey.
4. Stream Classification (Check one):	•
Class I - Open Ocean	Class II - Estuarine Waters
Class III - Nontidal Waters	Class IV - Mountainous Zone
•,	Waters
Class V - Put & Take Trout	Class VI - Natural Trout
Waters	Waters
Class VII - Swamp Waters	
5. Stream Drainage Area (check whiche	ver applies) **
a<1 square mile b<5 square mil	
**Note: Applicants proposing impoundments and wainformation (see section 11)	ater withdrawals may be required to provide more detailed hydrologic
6. Existing beneficial uses of affected wa	aters (check all that apply)***:
fish and wildlife habitat	recreation
public water supply	agriculture water supply
commercial/industrial supply	waste assimilation
navigation	cultural value
aesthetic value	other (please describe)
7. Uses which may be impacted by the pro	oposed project (check only those uses impacted) ***:
fish and wildlife habitat	recreation
public water supply	agriculture water supply
commercial/industrial supply	waste assimilation
navigation	cultural value
aesthetic value	other (please describe)
***Note: More detailed information on beneficial uses of any additional requirements.	may be required for specific projects. Applicants will be notified, in writing

#### 8. Functional values assessment (wetlands only):

Functional assessments are required for impacts (permanent and temporary) to all wetlands one acre or more in size. Many recognized functional assessment methodologies exist. However, the DEQ endorses no specific methodology at this time. It is suggested that an applicant or his agent select a method based upon its ease of use, ability to provide quality information, and utility in the field. Applicants are cautioned that the assessment of wetland functional value is technically complex. Persons unfamiliar with the techniques for functional assessment should use caution when attempting to utilize these methods. The functional assessment and the methodology utilized to determine functional value must be submitted to the DEQ with the application package.

#### 9. Wetland delineation (where applicable):

All projects impacting wetlands must provide a delineation map showing the physical location and aerial extent of all wetlands on the site. All data sheets and calculations utilized to determine an area's wetland status shall be submitted with the delineation map. The currently accepted federal methodology shall be used in preparing wetland delineations.

10. Mitigation Plan (required for unavoidable wetland losses and stream modifications):

The mitigation plan shall at a minimum include:

a. Measures taken to avoid impacts to surface waters, including wetlands.

Example 1: Structures were relocated to avoid wetland/stream relocation area's identified at X and Y on the delineation map.

<u>Example 2:</u> The road crossing structure has been changed from a quadruple box culvert to a bridge in order to avoid fill and channel modifications in Jones Branch, a sensitive trout stream.

b. Where impacts could not be avoided, measures taken to reduce impacts to surface waters, including wetlands.

Example 1: The slope of the road fill was reduced to x resulting in a reduction of y in wetland area impacted.

Example 2: The bridge was realigned to reduce the amount of channelization necessary to accommodate the road crossing.

- c. Where impacts could not be avoided or minimized, a mitigation plan which completely describes the type of impact to be mitigated and the means by which mitigation will be accomplished. Plans should include:
- \* Location of the mitigation site, including latitude and longitude at the center of the site.
- \* detailed sketches and site plans
- \* any other measures designed to re-create, enhance or restore impacted beneficial uses within the proposed mitigation area.

If no replacement mitigation is planned, the applicant must include a brief statement to this effect and include a detailed explanation as to the reason no replacement mitigation is planned.

Note: Applicants with projects involving a water withdrawal or a FERC hydropower licensing or relicensing are required to provide the information in items 11 through 19.

11. Applicants mus	st complete	e Appendi:	x N - St	ream Inta	kes and C	outfall Structures, A	Appendix O -
Stream Channel Mo	odification	s and/or A	appendi	x P - Imp	oundmen	sts/Dams, whichev	er is (are)
appropriate.							

12. What are the median monthly stream flows in cubic feet per second (cfs) at the water intake or dam site?

Median :	Flow	Med	lian Flow	
<u>Month</u>	(CFS)	<u>Month</u>	(CFS)	
JAN FEB MAR APR MAY JUN		JUL AUG SEP OCT NOV DEC		
	used to calculate ti		es, the type of calculations only flows in item 12, and the	
			·	
intake or dam site? Speci cubic feet per second, etc. Maximum insta Maximum daily	fy the units of meas ntaneous withdra withdrawal n which the withdr e of day, or time of	walawal of water va	aximum daily withdrawal llion gallons per day, gallo	ns per minute,
16. Describe below the an	use means the with	idrawal of surfac	nsumptive use. For the pur e waters without recycle o ation of the withdrawal an	rpose of this f said waters to

17. Describe below or in a separate attachment how the amount of water to be withdrawn was calculated and any relevant assumptions made in that calculation. Also describe the proposed use the water withdrawal.	e of

- 18. Describe in an attachment the existing beneficial uses of the surface water body near the proposed project site that would be affected by the withdrawal of water. Include both instream and offstream uses. For the purposes of this application beneficial instream uses include, but are not limited to, the protection of fish and wildlife habitat, maintenance of waste assimilation, recreation, navigation and cultural and aesthetic values. Offstream beneficial uses include, but are not limited to, domestic (including public water supply), agricultural, hydropower, commercial and industrial uses. Describe the streamflow necessary to protect existing beneficial uses and how the proposed withdrawal will impact existing beneficial uses.
- 19. Describe in an attachment the aquatic life known to be present at the proposed location that will be impacted by the proposed withdrawal. Include information on the species known to be present and their habitat requirements.

TO:

Applicants For Virginia Pollutant Discharge Elimination System (VPDES) Permits, Virginia Pollution Abatement (VPA) Permits, Virginia Corrective Action Plan (CAP) Permits and Virginia Water Protection Permits.

#### Article 2, § 62.1-44.15:3 of the State Water Control Law states:

"No application for a Certificate to discharge sewage, industrial wastes and other wastes into or adjacent to state waters shall be considered complete unless the applicant has provided the Executive Director with notification from the governing body of the county, city or town in which the discharge is to take place that the location and operation of the discharging facility is consistent with all ordinances adopted pursuant to Chapter 11 (§ 15.1-427 et seq.) of Title 15.1 of the Code."

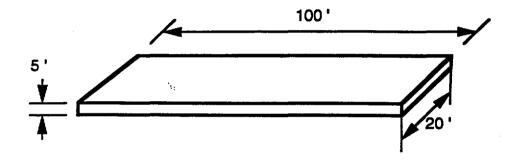
(These are local zoning and planning ordinances)

In accordance with this section, new applications for VPA permits, VPDES Permits, CAP Permits and Virginia Water Protection Permits will not be considered complete until the information below is submitted to the DEQ Regional Office or Headquarters Office in the case of the Virginia Water Protection Permits.

Regional Office Protection Permi		in the case of the Virginia Water
To: (Cou	nty, City or Town Admir	nistrator/Manager)
certificate. In of the Code of V below certifying	accordance with Chapte irginia, I request that	application form for a permit or r 11 (§15.1-427 et seq.) of Title 15.1 you sign one of the two statements on is consistent with your local
Return to:	·	
	(Applicant's Name)	
•	(Applicant's Address)	
consistent with a seq.) of Title 1	that the proposed locat all ordinances adopted 5.1 of the Code of Virg	ion and operation of the facility is pursuant to Chapter 11 (§15.1-427 et inia or sare in effect pursuant to Chapter 11
(§15.1-427 et sec	<b>I-)</b>	• · · · · · · · · · · · · · · · · · · ·
Signa	ature	Title
Print	name	Date

## How to calculate square feet, cubic feet and cubic yards:

If you wanted to dredge a channel 100 feet long, 20 feet wide and 5 feet deeper than the existing channel is at mean low water, the volume you dredge would look similar to the illustration below.



Using steps 1 - 3 below, the calculations for this example are:

- 1. 100 feet x 20 feet = 2,000 square feet
- 2. 5 feet x 2,000 feet = 10,000 cubic feet
- 3. 10,000 cubic feet / 27 = 370 cubic yards

Attachment C

Permit	#	



# Commonwealth of Virginia Marine Resources Commission Authorization

A Permit has been issued to:	
The Permittee is hereby authorized to	:
Issuance Date:	Expiration Date:
	MC Gall  Commissioner or Designee

This Notice Must Be Conspicuously Displayed At Site Of Work

Attachment D

Virginia Marine Resources Commission
Habitat Management Division
2500 Washington Avenue
Post Office Box 756
Newport News VA 23607-0755

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Sir/Hades

Sir/Hades

Signature that i mill common work by

(Parall Musber)

Is 

Parall to be completed by later than

(Date)

(Parall Postality)

Attachment E



# AM A. PRUITT imissioner ERT D. CRAFT . Administration and Finance ERT W. GRABB . Habitat Management

FRT 1 MARKI AND

, Law Enforcement

G. TRAVELSTEAD

Fisheries Management

# COMMONWEALTH of VIRGINIA

Marine Resources Commission

P. O. Box 756

2600 Washington Avenue
Newport News, Virginia 23607-0756

October 15, 1993

ASSOCIATE MEMBERS SIDNEY H. CAMDEN Casivitte, Virginia GEORGE S. FORREST Poquoson, Virginiz JOHN W. FREEMAN, SR Hampton, Virginia TIMOTHY G. HAYES Richmond, Virginia WILLIAM A. HUDNALL Heathsville, Virginia DONALD L LIVERMAN, SR. Virginia Beach, Virginia PETER W. ROWE Chesapeake, Virginia JANE C. WEBB Newport News, Virginia

Mr. Mark A. Bruner c/o Tidewater Dock, Inc. P. O. Box 2733 Virginia Beach, Va. 23450

RE: VMRC #93-1056

Dear Sir:

Enclosed is the Marine Resources Commission permit to install 233 linear feet of riprap revetment no more than three feet channelward of mean low water at property situated along Linkhorn Bay in Virginia Beach.

A yellow placard is also enclosed. This placard reflects the authorized activities for inspection purposes and <u>must</u> be conspicuously displayed at the work site throughout the construction phase. Failure to properly post the placard in a prominent location will be considered a violation of your permit conditions.

The work authorized by this permit is to be completed by October 31, 1996. Please note that in conformance with Special Condition 17 of your permit you are to notify the Commission prior to commencement of your permitted project. The enclosed self-addressed, stamped post card is to be used for this purpose. All other conditions of the permit will remain in effect.

Please be advised that you may also require issuance of a U. S. Army Corps of Engineers permit before you begin work on this project. You may wish to contact them directly to verify any permitting requirements.

Sincerely,

Robert W. Grabb

Chief, Habitat Management

RWG/lm HM

Enclosure

CC: U. S. Army Corps of Engineers, Norfolk District Virginia Beach Wetlands Board Applicant

113	$\sim$	30	٦	1 7

VMRC#	93-1056			
	Mark	Α.	Bruner	

#### COMMONWEALTH OF VIRGINIA MARINE RESOURCES COMMISSION PERMIT

he Commonwealth of Virginia;	Marine Resources Co	ommission, bereinafte	er referred to as the Commiss	ion, on this 5 th day of	October
993 berefix grants unto	Mark A.				

1537 Quail Point Road Virginia Beach, VA 23454

rereinafter referred to as the Permittee, permission to:

	<u>~</u>	encroach in, on, or over State-owned subaqueous bottoms pursuant to Chapter 12, Subtitle 111, of 11the 28.2 of the Code of Virginia.
•		Use or develop tidal wetlands pursuant to Chapter 13, Subtitle III, of Title 28.2 of the Code of Virginia.
<b>?e</b> т		necebyauthorized to: install 233 linear feet of riprap revetment no more
		n three feet channelward of mean low water at property situated

All activities authorized herein shall be accomplished in conformance with plans and drawings dated September 23, 1993, which are attached and made a part of this permit.

This permit is granted subject to the following conditions:

The work authorized by this permit shall be completed by 0 c tober 31, 1996. The Permittee shall notify the Commission when the project is completed. The completion date may be extended by the Commission in its discretion. Any such application for extension of time shall be in writing prior to the above completion date and shall specify the reason for such extension and the expected date of completion of construction. All other conditions remain in effect until revoked by the Commission or the General Assembly.

his permit grants no authority to the Permittee to encroach upon the property rights, including riparian rights of others.

be duly authorized agents of the Commission shall have the right to enter upon the premises at reasonable times, for the purpose of inspecting he work being done pursuant to this permit.

he Permittee shall comply with the water quality standards as established by the Virginia Water Control Board and all other applicable laws, or-linances, rules and regulations affecting the conduct of the project. The granting of this permit shall not relieve the Permittee of the responsibility of obtaining any and all other permits or authority for the projects.

This permit shall not be transferred without written consent of the Commissioner.

This permit shall not affect or interfere with the right vouchsafed to the people of Virginia concerning fishing, fowling and the catching of and thing of oysters and other shellfish in and from the bottom of acres and waters not included within the terms of this permit.

the Permittee shall, to the greatest extent practicable, minimize the adverse effects of the project upon adjacent properties and wedlands and upon the natural resources of the Commonwealth.

this permit may be revoked at any time by the Commission upon the failure of the Permittee to comply with any of the terms and conditions hereof or at the will of the General Assembly of Virginia.

there is expressly excluded from the permit any portion of the waters within the boundaries of the Baylor Survey.

s permit is subject to any lease of oyster planting ground in effect on the date of this permit. Nothing in this permit shall be construed as allowing the Permittee to encroach on any lease without the consent of the leaseholder. The Permittee shall be liable for any damages to such lease.

The issuance of this permit does not confer upon the Permittee any interest or title to the beds of the waters.

All structures authorized by this permit which are not maintained in good repair shall be completely removed from State-owned bottom within three (3) months after notification by the Commission.

the Permittee agrees to comply with all of the terms and conditions as set forth in this permit and that the project will be accomplished within the boundaries as outlined in the plans attached hereto. Any encroachment beyond the limits of this permit shall constitute a Class 1 misde-

This permit authorizes no claim to archaeological artifacts which may be encountered during the course of construction. If, however, archaeological remains are encountered, the Permittee agrees to notify the Commission, who will, in turn notify the Department of Historic Resources. The Permittee further agrees to cooperate with agencies of the Commonwealth in the recovery of archaeological remains if deemed necessary.

The Permittee agrees to indemnify and save harmless the Commonwealth of Virginia from any liability arising from the establishment, operation or maintenance of said project.

ig special conditions are imposed on this permit:

- 16. The yellow placard accompanying this permit document <u>must</u> be conspicuously displayed at the work site throughout the construction phase of the authorized activity.
- 17. Permittee agrees to notify the Commission a minimum of 15 days prior to the start of construction of the activities authorized by this permit.

a Notary public within and for said City, State of Virginia, hereby certify that Robert W. Grabb

whose name is signed to the toregoing, bearing the  $5 \, th$  day of  $0 \, ctober$ lowledged the same before me in my City aforesaid.

ven under my hand this 15th day of October

commission expires on the 31st day of , 19 96 March

MITTEE-WHITE COPY MISSION-YELLOW COPY S OF ENGINEERS—PINK COPY

JOB STIE MARK A. BRUNER 1537 OUAIL POINT RD. VIRGINIA BEACH, VA 23454



REVISED DRAWINGS PROJECT 93-1056-101 ~~ #80 KEC.P \*\*

SCALE: 1'' = 2,000'

\$19 27 ggs

URPOSE: EROSION CONTROL RIUM: M.L.W. 0.00 DUACENT PROPERTY OWNERS: ) GRAY N. TURNER

) DAVID H. ADAMS

ADC'S STREET MAP OF TIDEWATER VIRGINIA MAP 14 GRID BLOCK C-7

PROPOSED SHORELINE PROTECTION

Place Trans Sessions Center

IN: LINKHORN BAY

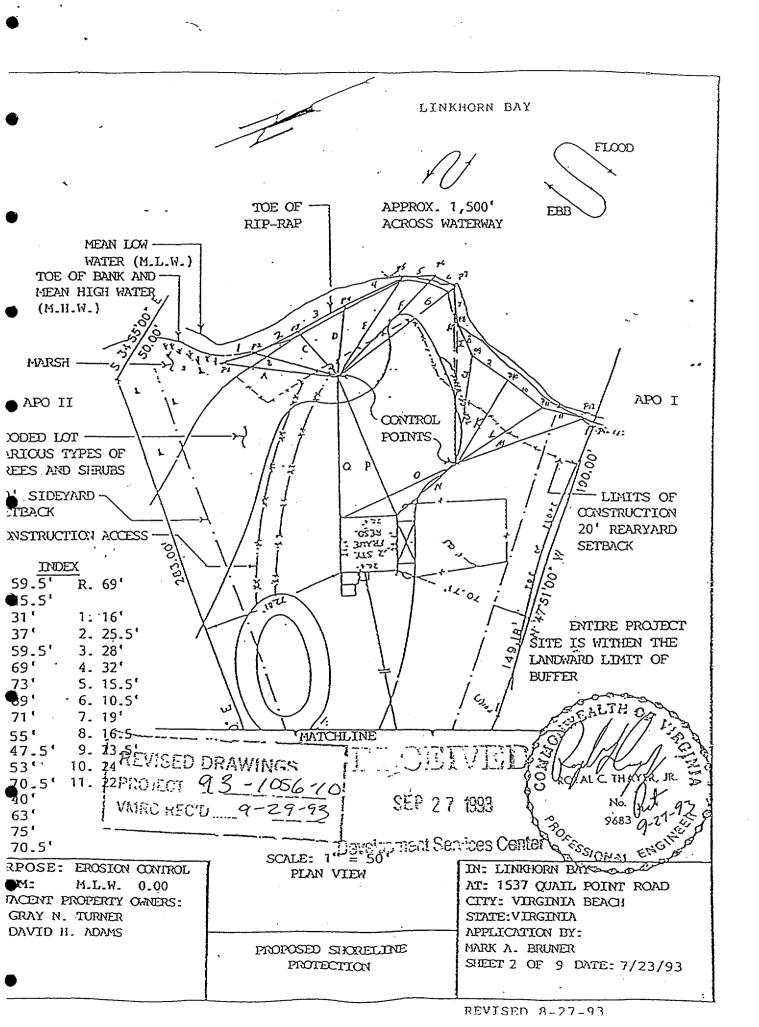
AT: 1537 QUAIL POINT ROAD CITY: VIRGINIA BEACH

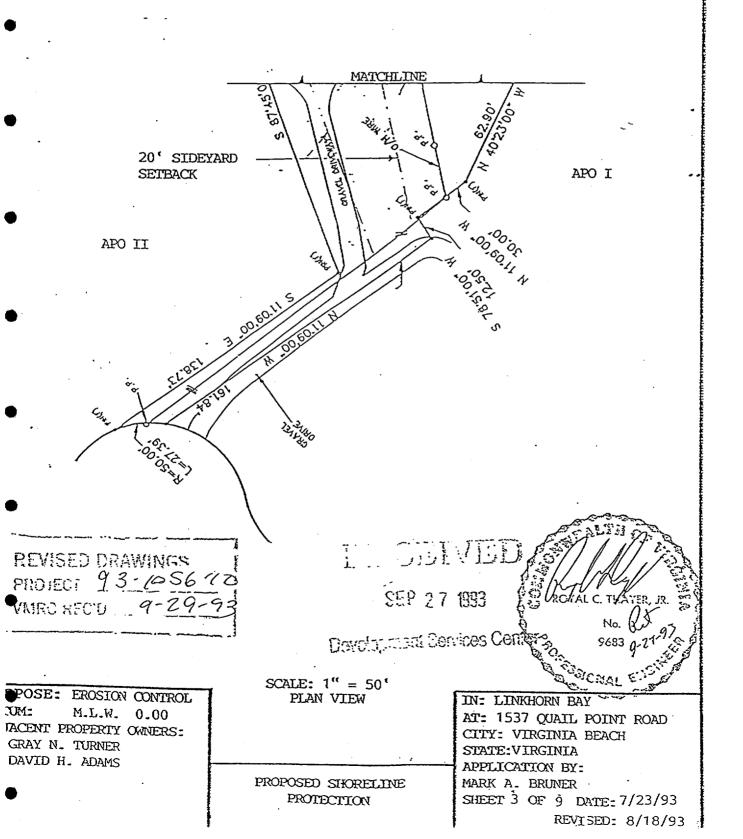
STATE: VIRGINIA

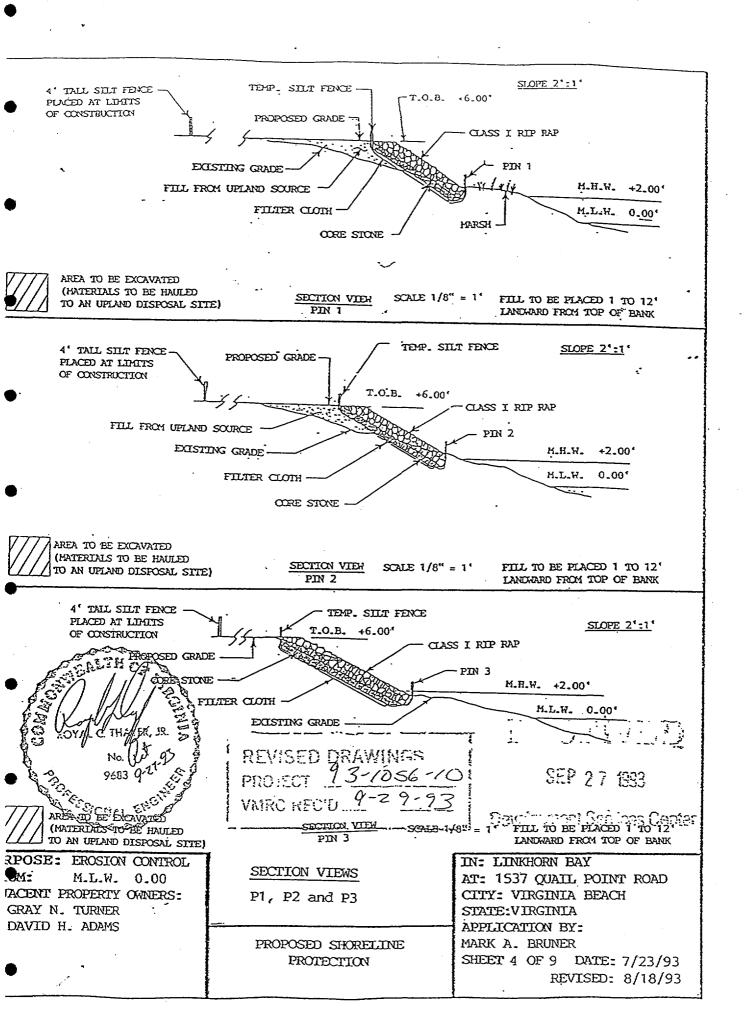
APPLICATION BY: MARK A. BRUNER

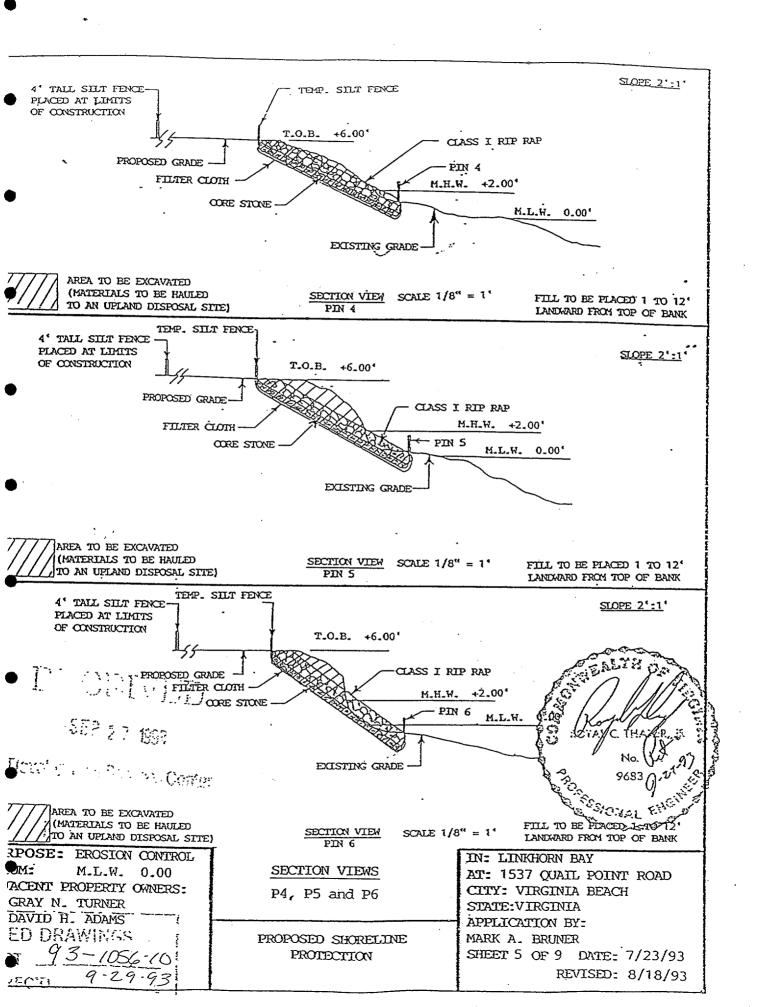
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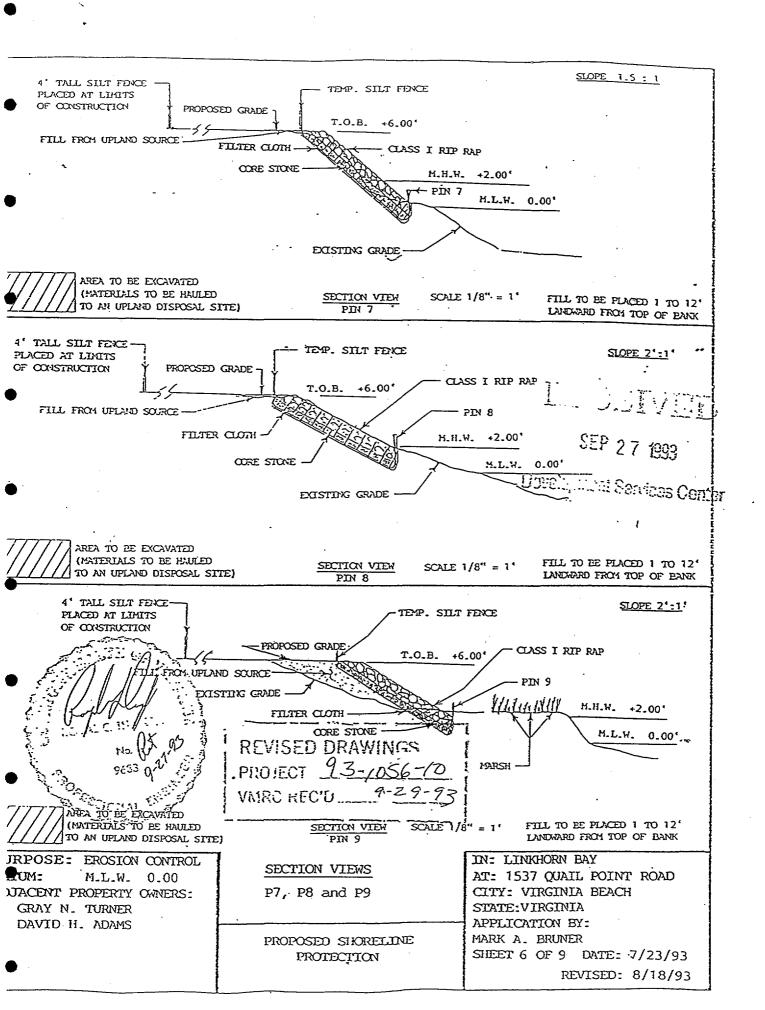
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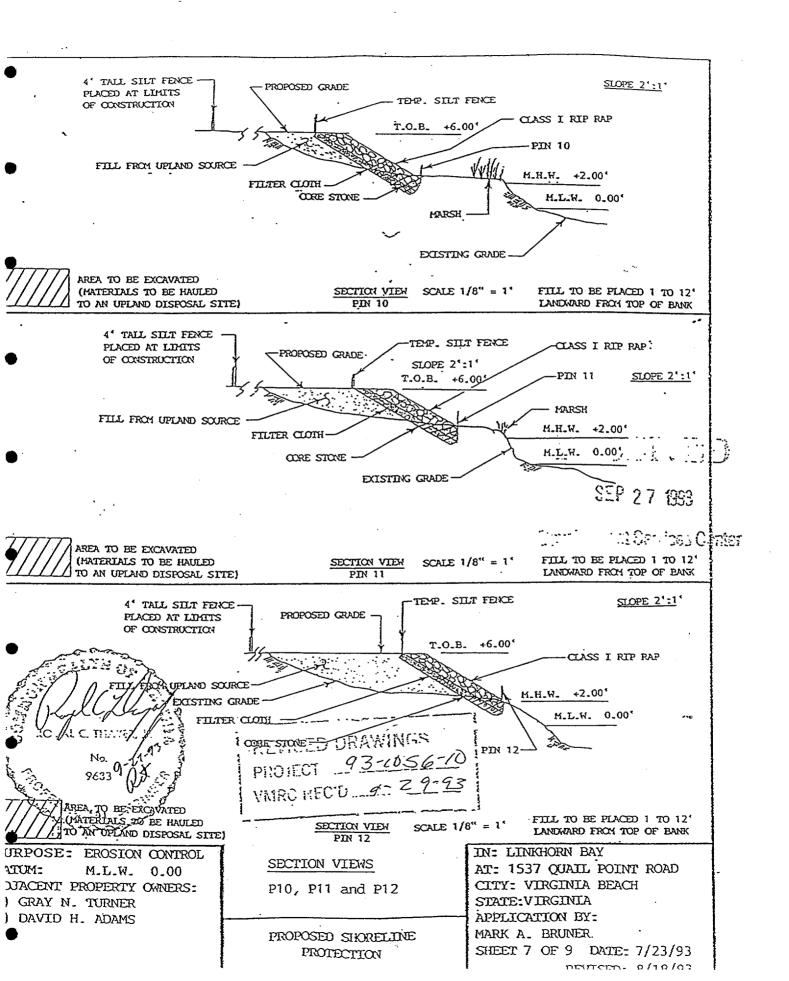












#### GENERAL NOTES:

- 1) A 4' TALL SILT FENCE WILL BE PLACED AND MAINTAINED ALONG ALL ACCESSWAYS 'PRIOR TO THE START OF ANY CONSTRUCTION.
- 2) TREES THAT ARE TO BE REMOVED ARE TAGGED WITH PINK SURVEY RIBBON.
- 3) SAND FILL TO BE FROM UPLAND SOURCE.
- 4) ALL DISTURBED AREAS TO BE TOPSOILED AND SEEDED.
- 5) A SILT FENCE WILL INSTALLED AT THE TOP OF BANK, AND MAINTAINED UNTILL A PERENNIAL VEGETATIVE COVER IS ESTABLISHED.
- 6) ALL MATERIAL IS TO BE USED IN ACCORDANCE-WITH THE MANUFACTURER'S RECOMENDATIONS.

#### SEQUENCE OF EVENTS:

1)	INSTALL A 4 TALL SILT FENCE ALONG ACCESSWAYS	ı	DAY
2)	REMOVE DEBRIS FROM SHORELINE	4	DAYS
	REMOVE TAGGED TREES		
4)	EXCAVATE TOE-IN-TRENCH AND RESHAPE SHORELINE	5	DAYS
5)	INSTALL FILTER CLOTH AND LAY RIP-RAP	2	WEEKS
6)	REMOVE SILT FENCE, ESTABLISH PERENNIAL VEGITATIVE		
	COVER OVER ALL DISTIPLED APPAS	2	DAYS

SEP 27 (93)

Barrings of Services Confid

TRPOSE: EROSION CONTROL NATUM: M.L.W. 0.00
DJACENT PROPERTY OWNERS:

) GRAY N. TURNER

?) DAVID H. ADAMS

GENERAL NOTES
AND
SEQUENCE OF EVENTS

PROPOSED SHORELINE PROTECTION

IN: LINKHORN BAY

AT: 1537 QUAIL POINT ROAD

CITY: VIRGINIA BEACH

STATE: VIRGINIA

APPLICATION BY: MARK A. BRUNER

SHEET 8 OF 9 DATE: 7/23/93

REVISED: 8/18/93

### SITE SPECIFIC SEEDING MIXTURES FOR COASTAL PLAIN AREA

	Total Lbs. Per Acre
Minimum Care Lawn	
- Commercial or Residential	
- Kentucky 31 or Turf-Type Tall Fescue	175-200 lbs.
- Common Bermudagrass **	75 Ibs.
High-Maintenance Lawn	
- Kentucky 31 or Turf-Type Tall Fescue	200-250 lbs.
or .	
- Hybrid Bermudagrass (seed) **	40 lbs. (unhulled) 30 lbs. (hulled)
or .	20 102. Tuanca)
<ul> <li>Hybrid Bermudagrass (by other vegetative establishment method, see Std. &amp; Spec. 3.34)</li> </ul>	
General Slope (3:1 or less)	
- Kentucky 31 Fescue	128 Ibs.
- Red Top Grass	2 lbs.
- Seasonal Nurse Crop *	20 lbs.
ocasonai Naise Crop	150 lbs.
Low Maintenance Slope (Steeper than 3:1)	
- Kentucky 31 Tall Fescue	93-108 lbs.
- Common Bermudagrass **	' 0-15 lbs.
- Red Top Grass	2 lbs.
- Seasonal Nurse Crop *	20 lbs.
- Sericea Lespedeza **	20 lbs.
	150 lbs.
* Use seasonal nurse crop in accordance with seeding dates February, March through April May 1st through August September, October through November 15th November 16th through January	Annual Rye Foxtail Millet Annual Ryc
"May through October, use hulled seed. All other so unhulled seed. Weeping Lovegrass may be added to maintenance mix during warmer seeding periods; add 10-20	any slope or low-

SEP 27 1953

Date Light of A Constant Confe

■POSE: EROSION CONTROL TUM: M.L.W. 0.00 JACENT PROPERTY OWNERS: GRAY N. TURNER DAVID H. ADAMS

SEEDING SCHEDULE

PROPOSED SIKRELINE

PROTECTION

IN: LINKHORN BAY

AT: 1537 QUAIL POINT ROAD CITY: VIRGINIA BEACH

STATE: VIRGINIA APPLICATION BY:

MARK A. BRUNER

SHEET 9 OF 9 DATE: 7/23/93

REVISED: 8/18/93

Attachment F

### PROJECT COMPLIANCE ASSESSMENT

	VMRC# ENGINEER SITE VISIT DATE/TIME OTHERS PRESENT
Permittee	
Project Completed? YES	NO
Date of Permit Expiration	(VMRC)(LWB)
	nitted
Project Dimensions as Cons	tructed
Can Permit Compliance be D	etermined?If no, explain.
Degree of Permit Compliance In Compliance Mod	e: lerate Out of Compliance
Additional Comments	
Contractor?	
Pictures Taken? YES	NO

# Attachment G

# **Compliance Inspection Report**

Appl. #		Name	Company	Inspection Date	Complete	Degree of Compliance	Inspector	Pictures Taken	Locality	Comments
94-1583	Joseph	Luter, III		Oct 14, 199	5 Yes	In Compliance	Roadley	No	Isle of Wight	
95-0155	Marlen	Moss, et al		Oct 18, 199	5 Yes	In Compliance	Lipscomb	No	Norfolk	Average overdredge was estimated to be about .4 inches. The required post dredge survey was used to determine compliance.
93-0776	Mary	Stephens		Oct 22, 199	5 Yes	In Compliance	Neikirk	Yes	Mathews	Only one groin and all of the riprap installed 6-8 channelward of bulkhead. Additrional riprap has been installed in accord with the new permit. Some of the stone appears small.
95-0849	С	Lockwood, Jr.		Oct 22, 199	5 Yes	In Compliance	Neikirk	Yes	Mathews	
94-0968	Edward	l Adams		Oct 31, 199	5 Yes	In Compliance	Frye	Yes	Poquoson	
94-1353			River Pointe Associate	Nov 01, 199	95 Yes	In Compliance	Gardner	Yes	Portsmouth	
9.4-1196	James	Izard, II		Nov 01, 199	95 Yes	In Compliance	Gardner	Yes	Norfolk	•
94-0760	F	Kiger, Jr.		Nov 01, 199	95 Yes	Moderate Compliance	Gardner	Yes	Norfolk	
95-0007	Syed	Hyder		Nov 02, 199	95 Yes	In Compliance	Watkinson	Yes	King and Queen	The platform was constructed 34*16', instead of 36*16
95-0291	Bobby	Kilpatrick		Nov 03, 199	95 Yes	In Compliance	Lipscomb	Yes	Suffolk	
95-0750	Willia	Hackett, Jr.		Nov 08, 199	95 Yes	In Compliance	Neikirk	Yes	Gloucester	
95-0819	Chuck	Neff		Nov 08, 199	95 Yes	In Compliance	Neikirk	Yes	Mathews	
94-0399	Steven	Taubman		Dec 06, 199	95 Yes	In Compliance	Owen	No	Virginia Beach	Slide came out too dark, Entered into system 5/6/96 because that is when I received the check back.
95-0687			Newport News Shipbul	Dec 07, 199	95 Yes	In Compliance	Lipscomb	Yes	Newport News	
95-0625			Norfolk Southern Corp	Dec 08, 199	95 Yes	In Compliance	Lipscomb	Yes	Norfolk	
95-0623	J	Boyer		Dec 08, 199	95 Yes	In Compliance	Lipscomb	Yes	James City	
94-0089	Laurie	Sanderson, et a	a .	Dec 15, 199	95 Yes	In Compliance	Neikirk	Yes	Gloucester	Piling appears to be in the correct location.
94-1734	Frank	Machovec		Dec 15, 199	95 Yes	In Compliance	Neikirk	Yes	Gloucester	

Appl. #	Name	Company	Inspection Date	Complet	Degree of ed . Compliance	Inspector	Pictures Taken	Locality	Comments
95-0875 Stepl	nen Jones		Dec 15, 1995	yes Yes	In Compliance	Neikirk	Yes	Gloucester	Mooring appears to be in the correct location, couldn't see if mooring buoy is marked with blue stripe and VMRC # since the boat is tied to it
94-0913 Ben	Seawell, Jr.		Dec 15, 1995	Yes	In Compliance	Neikirk	Yes	Gloucester	
95-0546 Jame	s Blanchard, Jr.		Dec 15, 1995	Yes	In Compliance	Neikirk	Yes	Gloucester	
94-1264 W	Belvin		Dec 15, 1995	Yes	In Compliance	Neikirk	Yes	Gloucester	,
94-1201 Chris	s Naquin		Dec 15, 1995	Yes	Moderate Compliance	Neikirk	Yes	Gloucester	
95-0787		Camp Peary	Dec 19, 1995	Yes	Moderate Compliance	Gardner	Yes	York	the lift was built 22*16 instead of 20*14
94-1123 Willi	a Rilee		Dec 22, 1995	yes Yes	In Compliance	Watkinson	Yes	King and Queen	
95-1172 Mark	Ranson		Jan 04, 1996	Yes	In Compliance	Woodward	Yes	Northumberland	New pink card came in and indicated the project was complete.
95-1237 Ralp	h Zwicker		Jan 04, 1996	Yes	In Compliance	Woodward	Yes	Northumberland	Only 2 out of the 3 groins built-spaced further apart.
95-1043 Peter	Wester		Jan 04, 1996	Yes	In Compliance	Woodward	Yes	Northumberland	
95-1134 Stua	rt Seawell		Jan 04, 1996	Yes	In Compliance	Woodward	Yes	Northumberland	
95-0633 Wali	er Lewis		Jan 18, 1996	Yes	In Compliance	Madden	Yes	Westmoreland	
94-0757		Lee's Hill Partnership	Jan 18, 1996	Yes	Unable to Determine	Madden	Yes	Spotsylvania	
95-0342 Will	ard Siepel		Jan 18, 1996	Yes	In Compliance	Madden	Yes	Westmoreland	
95-0089		GTE Incorporated	Jan 18, 1996	Yes	In Compliance	Madden	Yes	Westmoreland	
95-1106 Eva	Hitchens		Jan 19, 1996	Yes	In Compliance	Neikirk	Yes	Mathews	
95-1012 Robo	ert Meredith et al		Jan 24, 1996	Yes	Moderate Compliance	Lipscomb	No	Portsmouth	
93-1173		Metro Machine Corp.	Jan 25, 1996	5 Yes	In Compliance	Lipscomb	Yes	Norfolk	The dolphins are complete, but they do not plan to pursue building the 30*30 platform at this time.
93-1568 Robe	ert McGeorge, et a	a	Jan 26, 1996	yes	In Compliance	Neikirk	Yes	Richmond Count	
94-0642 Alex	Clarke		Jan 26, 1996	5 Yes	In Compliance	Neikirk	Yes	Richmond Count	· :

Appl. #	Name	Company	Inspection Date	Complete	Degree of Compliance	Inspector	Pictures Taken	Locality	Comments
93-1138 Willia	Jones		Jan 26, 1996	5 Yes	In Compliance	Neikirk	Yes	Richmond Count	
94-1701 Robert	Spencer		Jan 26, 1996	5 Yes	Moderate Compliance	Neikirk	Yes	Richmond Count	The ramp was authorized to be 12*40, it was built 15*45. It appears slightly larger due to the shifting of the stone, appears to be stable now.
94-1159		Settlers Landing	Jan 26, 1996	5 Yes	Moderate Compliance	Neikirk	Yes	Richmond Count	Slightly longer than permitted, shared 2 slip pier has not been constructed and agent has said it most likely will not. Developers want to wait to see what the future owners want.
95-1509 C	Hale		Jan 30, 1996	5 Yes	In Compliance	Woodward	Yes	Lancaster	
95-0487 Brian	Dillistin		Feb 01, 1996	5 Yes	Moderate Compliance	Woodward	Yes	Lancaster	Width slightly greater than permitted but reasonable given tie-in adjacent to the breakwater
93-1595 Bert	Kuehlhorn		Feb 01, 1996	6 Yes	In Compliance	Woodward	Yes	Lancaster	
95-1048 Marge	r Ludwig		Feb 01, 1996	6 Yes	In Compliance	Woodward	Yes	Lancaster	Ties into George Crane 94-0030.
G I-0739		Busch Properties, Inc.	Feb 06, 1996	6 Yes	Out of Compliance	Lipscomb	No	James City	Kicked back to Engineer with note to pursue as a violation.
95-0179 Keith	Cooke, et al		Feb 20, 1996	6 Yes	In Compliance	Madden	Yes	Essex	
94-0594		Navy, Department of	Feb 26, 1996	6 Yes	In Compliance	Lipscomb	No	Portsmouth	
95-1107		Rappahannock Electri	Feb 29, 1996	6 Yes	In Compliance	Madden	Yes	Essex	
95-0096 Floyd	Deary, III		Mar 07, 1996	6 Yes	In Compliance	Owen	Yes	Virginia Beach	
95-0337 Lewis	Sherman		Mar 07, 1996	6 Yes	In Compliance	Owen	Yes	Virginia Beach	
94-1740 John	Turbyfill		Mar 07, 1996	6 Yes	In Compliance	Owen	Yes	Virginia Beach	
94 <b>-</b> 1637 Conwa	y Britton		Mar 07, 1996	6 Yes	Moderate Compliance	Owen	Yes	Virginia Beach	
94-0717 Richar	d Williams		Mar 07, 1996	6 Yes	In Compliance	Owen	Yes	Virginia Beach	
94-0870 Shirley	Olsen, et al		Mar 07, 1996	6 Yes	In Compliance	Owen	Yes	Virginia Beach	
95-0423 V	Via		Mar 07, 1996	6 Yes	In Compliance	Owen	Yes	Virginia Beach	
95-0097 Masso	u Moayery		Mar 07, 1996	6 Yes	In Compliance	Owen	Yes	Virginia Beach	

Appl. #		Name	Company	Inspection C	Complete	Degree of Compliance	Inspector	Pictures Taken	Locality	Comments
94-1713	Ernest	Gallop		Mar 07, 1996	Yes	In Compliance	Owen	Yes	Virginia Beach	
95-0321			Virginia Beach, City o	Mar 07, 1996	Yes	In Compliance	Owen	Yes	Virginia Beach	
95 <b>-</b> 0027	Paul	Johnson		Mar 07, 1996	Yes	In Compliance	Owen	Yes	Virginia Beach	
95-0207	George	Kouri		Mar 07, 1996	Yes	In Compliance	Owen	Yes	Virginia Beach	
94-0503	John	Finguerra		Mar 07, 1996	Yes	In Compliance	Owen	Yes	Virginia Beach	
94-0842			Virginia Beach, City o	Mar 07, 1996	Yes	In Compliance	Owen	Yes	Virginia Beach	
95-0020	Richard	i Dunn		Mar 07, 1996	Yes	In Compliance	Owen	Yes	Virginia Beach	
95-0079	John	Sherman		Mar 07, 1996	Yes	In Compliance	Owen	Yes	Virginia Beach	
95-1174	David	Wilson		Mar 15, 1996	Yes	Unable to Determine	Frye	Yes	Northampton	No benchmarks for the bulkhead alignment, but it appears to be in compliance.
93-0767	Brooks	Russell	1	Mar 22, 1996	Yes	In Compliance	Frye	Yes	Accomack Count	
95-1684	David	Scott, Jr.		Mar 22, 1996	Yes	In Compliance	Frye	Yes	Accomack Count	
95-0767			Virginia Natural Gas,	Mar 22, 1996	Yes	In Compliance	Lipscomb	No	Norfolk	The engineer did this from his desk by requiring as built drawings from the applicant for the 1350' submerged gas crossing.
95-0160	Thoma	s Hart		Mar 22, 1996	Yes	In Compliance	Frye	Yes	Accomack Count	
95-1591			Taylor's Landing Mari	Apr 02, 1996	Yes	In Compliance	Lipscomb	Yes	Norfolk	
93-1543			Tarmac Mid-Atlantic,	Apr 02, 1996	Yes	Moderate Compliance	Owen	Yes	Chesapeake	During the inspection a violation was found on the property. It is being resolved by the engineer and brought into compliance.
95-0920	Eleano	r Respess		Apr 03, 1996	Yes	In Compliance	Neikirk	Yes	Mathews	
95-0700	Thoma	s Jones		Apr 03, 1996	Yes	In Compliance	Roadley	Yes	Surry	
95-1335	Stuart	Carwile, Jr.		Apr 03, 1996	Yes	In Compliance	Neikirk	Yes	Middlesex	Bulkhead is landward of permitted alignment, near the concrete slab about 15' back.
95-1234	Richard	i Bennett		Apr 03, 1996	Yes	In Compliance	Neikirk	Yes	Middlesex	

Appl. #		Name	Company	Inspection Date Co	omplet	Degree of ed . Compliance	Inspector	Pictures Taken	Locality	Comments
95-0431	Joseph	Luter, III		Apr 03, 1996	Yes	In Compliance	Roadley	No	Isle of Wight	
95-0219	Dean	Schlief		Apr 04, 1996	Yes	In Compliance	Watkinson	Yes	New Kent	Piles for the boathouse were 90' form the permitted location, Tony discussed with the property owner and revisions were submitted
95-1284	John	Davis		Apr 04, 1996	Yes	In Compliance	Owen	No	Virginia Beach	
95-0180	David	Kellar		Apr 05, 1996	Yes	In Compliance	Neikirk	Yes	Middlesex	
94-1462	Beverly	Black		Apr 05, 1996	Yes	In Compliance	Neikirk	Yes	Middlesex	Did not install the pilings at a very good angle, the bulkhead is still threatened.
93-1287	Ralph	Cook		Apr 05, 1996	Yes	In Compliance	Neikirk	Yes	Middlesex	
94-1424	Kennon	Person, et al		Apr 05, 1996	Yes	In Compliance	Neikirk	Yes	Middlesex	
94-0442	Millard	Driskoll		Apr 05, 1996	Yes	Moderate Compliance	Neikirk	Yes	Middlesex	The riprap is longer than described in the permit, but it is built as depicted in the project drawings. The project description on page 14 says 140' but drawing, appendices, and permit says 110' of riprap
95-0348	Margar	Gilberg		Apr 05, 1996	Yes	In Compliance	Neikirk	Yes	Middlesex	
93-1606	Paul	James		Apr 11, 1996	Yes	In Compliance	Madden	Yes	Essex	
95-1135			Norfolk, City of	Apr 17, 1996	Yes	In Compliance	Lipscomb	No	Norfolk	
95-0273			Navy, Department of	Apr 19, 1996	Yes	In Compliance	Lipscomb	No	Norfolk	
95-1021			Moon Engineering Co.	Apr 26, 1996	Yes	In Compliance	Lipscomb	No	Portsmouth	
94-1441	Ronald	Reifsteck		May 02, 1996	Yes	In Compliance	Madden	Yes	Westmoreland	
94-0189			Fairfax, County of	May 02, 1996	Yes	Unable to Determine	Madden	Yes	Fairfax County	
95-0632	Willia	Vaughan		May 02, 1996	Yes	In Compliance	Madden	Yes	Westmoreland	
94-1047	Ronald	Reifsteck		May 02, 1996	Yes	In Compliance	Madden	Yes	Westmoreland	
94-1418			Habitats, L.L.C.	May 06, 1996	Yes	In Compliance	Frye	Yes	Northampton	phase 1 is complete the second phase does not look as if they will complete the project. Needs to be re-checked at the expiration date
96-0373	Rodney	Ricketts		May 06, 1996	Yes	In Compliance	Frye	Yes	Poquoson	

Appl. #	Name	Company	Inspection Control	omplet	Degree of ed . Compliance	Inspector	Pictures Taken	Locality	Comments
96-0080 B	McAlexander		May 06, 1996	Yes	In Compliance	Frye	Yes	Poquoson	
95-1328		Ballard Fish & Oyster	May 06, 1996	Yes	In Compliance	Frye	Yes	Northampton	
93-1102 Doug	gla Pulley		May 08, 1996	Yes	In Compliance	Neikirk	Yes	Lancaster	
94-1626 Rich	ard Kraske		May 13, 1996	Yes	In Compliance	Woodward	Yes	Lancaster	, <b>,</b>
95-1236 Clay	ton Doucette		May 16, 1996	Yes	In Compliance	Madden	Yes	Stafford	
94-0667 Jane	t Trainham		May 17, 1996	Yes	In Compliance	Neikirk	Yes	Middlesex	
94-1639 C	Bartlett		May 17, 1996	Yes	In Compliance	Gardner	Yes	Poquoson	
95-0656 C	Peters		May 17, 1996	Yes	In Compliance	Gardner	Yes	Newport News	
95-0657 Brad	lfor Huffman		May 17, 1996	Yes	In Compliance	Gardner	Yes	Newport News	
95-0918 Stev	e Gossett		May 17, 1996	Yes	In Compliance	Gardner	Yes	Norfolk	
94-1393 Carr	roll Acors		May 17, 1996	Yes	In Compliance	Gardner	Yes	Norfolk	No boat has ever been observed with the mooring and it has been checked three times. A letter is being sent to the applicant about whether the mooring has been abandoned. A letter was received from the applicant, and he intends to occupy the buoy.
95-1313 Mito	chel Avent		May 17, 1996	Yes	In Compliance	Gardner	Yes	Newport News	
95-1358		Newport News, City of	May 17, 1996	Yes	Unable to Determine	Gardner	Yes	Newport News	Compliance cannot accurately be determined, but from observing construction patches on the road and under the bridge it does appear to be in compliance.
95-0307 Ron	ald Frenkel		May 20, 1996	Yes	In Compliance	Owen	Yes	Virginia Beach	
95-0002		New Kent, County of	May 24, 1996	Yes	In Compliance	Knowles	No	New Kent	
96-0053 R	Thompson		May 24, 1996	Yes	Moderate Compliance	Roadley	Yes	Isle of Wight	
96-0004 Nath	nani Hurd		May 24, 1996	Yes	In Compliance	Roadley	No	Isle of Wight	
93-0443 Greg	gory Vassilakos		May 24, 1996	No		Roadley	Yes	Isle of Wight	The project was never built
93-0005		Transportation, Dept.	Jun 01, 1996	Yes	In Compliance	Roadley	Yes	Multiple Countie	

Appl. #		Name	Company	Inspection Date	Complet	Degree of ed . Compliance	Inspector	Pictures Taken	Locality	Comments
96-0191	Kennet	Connolly		Jun 03, 1996	Yes	In Compliance	Woodward	Yes	Lancaster	
95-0323	Willia	Haynie, III		Jun 03, 1996	Yes	Unable to Determine	Woodward	Yes	Lancaster	
95-1323	James	Rogers		Jun 11, 1996	Yes	In Compliance	Neikirk	Yes	Middlesex	The job looks good. All of the illegally placed fill was removed. Nourished area has been sprigged on 18" centers.
95-1299	Reid	Branch, Jr.		Jun 11, 1996	Yes	In Compliance	Neikirk	Yes	Middlesex	
94-1376			Wilsonia Landing Ow	Jun 15, 1996	Yes	In Compliance	Frye	Yes	Northampton	
96-0078	Bonnie	Gwathmey		Jun 20, 1996	Yes	In Compliance	Woodward	Yes	Lancaster	
94-0719			Chesapeake, City of	Jun 21, 1996	Yes	Unable to Determine	Owen	Yes	Chesapeake	
93-1040			Norfolk & Western Ra	Jun 21, 1996	Yes	Unable to Determine	Owen	Yes	Chesapeake	
95 <b>-</b> 0177			Amoco Oil Company	Jun 21, 1996	Yes	In Compliance	Owen	Yes	Chesapeake	
9.i-0466			Rappahannock Electri	Jun 21, 1996	Yes	In Compliance	Watkinson	Yes	King William	
95-1422	Allen	Findley		Jun 28, 1996	Yes	In Compliance	Gardner	Yes	Newport News	
95-1414	Richard	d Meredith		Jun 28, 1996	Yes	In Compliance	Gardner	Yes	Norfolk	
91-1412	Lindell	Cruise		Jul 01, 1996	Yes	Unable to Determine	Roadley	Yes	Charles City	
95-1141			Union Camp Corporati	Jul 01, 1996	Yes	In Compliance	Roadley	Yes	Isle of Wight	
95-1700			Norfolk, City of	Jul 10, 1996	Yes	In Compliance	Lipscomb	Yes	Norfolk	Scour under the ramp on the right side
92-1195	Margar	Munden		Jul 11, 1996	Yes	In Compliance	Lipscomb	Yes	James City	
92-1327			Waters Ridge Condo.	Jul 11, 1996	Yes	In Compliance	Lipscomb	Yes	Newport News	
95-0758		• 1	Game and Inland Fish	Jul 11, 1996	Yes	In Compliance	Lipscomb	Yes	Hampton	
92-1024			JPM, Inc.	Jul 11, 1996	Yes	In Compliance	Knowles	Yes	King and Queen	
93-0449	Ron	Rothwell		Jul 11, 1996	Yes	Moderate Compliance	Lipscomb	Yes	James City	Could not properly measure the width because the pier does not wrap around,k but it appears to be correct.
94-0166	David	Lancaster	,	Jul 12, 1996	No		Knowles	No	New Kent	The applicants have stated they do not intend to build this project

Appl. #	Name	Company	Inspection Date	Complet	Degree of Compliance	Inspector	Pictures Taken	Locality	Comments
96-0058 James	s Holt		Jul 15, 1996	Yes	In Compliance	Lipscomb	Yes	Hampton	
96-0797 Paul	Walter		Jul 16, 1996	Yes	In Compliance	Woodward	Yes	Middlesex	Appears to be holding the beach in conjunction with the groins up and downstream
95-0426 James	s Berry		Jul 16, 1996	Yes	In Compliance	Woodward	Yes	Lancaster	Sand building on the down river side of the groin
95-0879		Navy, Dept. of	Jul 19, 1996	Yes	In Compliance	Lipscomb	Yes	Portsmouth .	
91-1702		Navy, Dept. of	Jul 19, 1996	Yes	In Compliance	Lipscomb	Yes	Portsmouth	
96-1015		Tidewater Constructio	Jul 24, 1996	Yes	In Compliance	Lipscomb	Yes	Norfolk	Bridge was destroyed on 7/24/96 at 6:35 a.m. We captured the living moment on video tape.
93-0239 Lloyd	Newton		Jul 25, 1996	Yes	In Compliance	Owen	Yes	Virginia Beach	
93-0701 Josep	h Etheridge		Jul 25, 1996	Yes	In Compliance	Owen	Yes	Virginia Beach	
93-0372 Josep	h Bauernfeind		Jul 25, 1996	Yes	In Compliance	Owen	Yes	Virginia Beach	
96-0028 Bill	Brown		Jul 25, 1996	Yes	In Compliance	Owen	Yes	Virginia Beach	•
95-1693 J	Potter		Jul 25, 1996	Yes	In Compliance	Owen	Yes	Virginia Beach	
95-1385 Alfre	d Ritter		Jul 25, 1996	Yes	In Compliance	Owen	Yes	Virginia Beach	
93 <b>-</b> 0855 J	Crowell, Jr.		Jul 25, 1996	Yes	In Compliance	Knowles	Yes	Richmond Count	Drawings show 40' groin and 39' is referenced in the cover letter, there is an error some where. They constructed a 40' groin
93-0804 Alice	Hawkins		Jul 25, 1996	Yes	Unable to Determine	Gardner	Yes	New Kent	The pier on the boathouse does not wrap around all the way. It does appear however that the project is in compliance
94-0786		Pollard Corporation	Jul 25, 1996	Yes	In Compliance	Gardner	Yes	York	Applicant elected not to riprap a small about 30' portion of the project. A slide was taken of the area. He indicated that he would probably reapply at a later date if he changed his mind
93-0511 Wayr	e McLellan		Jul 25, 1996	No		Gardner	Yes	York	It does not appear from the site inspection that the applicant ever pursued this project. The property has been sold.
93-0397 Lelan	d Graham		Jul 25, 1996	Yes	In Compliance	Knowles	Yes	King and Queen	

Appl. #	Name	Company	Inspection Date	Complete	Degree of Compliance	Inspector	Pictures Taken	Locality	Comments
94-1205		Virginia Natural Gas	Jul 25, 1996	6 Yes	In Compliance	Owen	Yes	Multiple Countie	
94-0016		River Oaks Boat Club	Jul 25, 1996	6 Yes	In Compliance	Knowles	Yes	Essex	
93-0092 Willi	a Turner		Aug 01, 199	6 Yes	In Compliance	Frye	No	Accomack Count	
92-0869 E	Trader		Aug 01, 199	6 Yes	In Compliance	Frye	Yes	Accomack Count	·
93-0191 Jame	s Kimidy		Aug 01, 199	6 Yes	In Compliance	Frye	Yes	Accomack Count	
93-0904		Chickahominy Haven	Aug 02, 199	6 Yes	Unable to Determine	Lipscomb	No	James City	The ramp is under water, there for no compliance could be determined
96-0324 Olaf	Zwicker		Aug 02, 199	6 Yes	In Compliance	Knowles	Yes	Northumberland	
90-0691		Glebe Point Campgrou	Aug 02, 199	6 Yes	In Compliance	Knowles	No	Northumberland	
96-0178 Robe	rt Sullivan		Aug 02, 199	6 Yes	In Compliance	Knowles	Yes	Northumberland	
91-1275 Willi	a Sanford, Jr.		Aug 02, 199	6 Yes	In Compliance	Knowles	Yes	Northumberland	
96-0557		Chamberlin Hotel, The	Aug 02, 199	6 Yes	Unable to Determine	Lipscomb	Yes	Hampton	Groin has already failed. Did not fill the beach as much as was permitted. They should have hired a marine contractor
92-0985		Newport News, City of	Aug 02, 199	6 Yes	In Compliance	Lipscomb	Yes	Newport News	
92-1568		Delmarva Properties, I	Aug 06, 199	6 Yes	In Compliance	Woodward	Yes	Lancaster	
96-0045 Char	les Neff, Jr.		Aug 06, 199	6 Yes	In Compliance	Frye	Yes	Mathews	
95-1127 Robe	rt Phillips		Aug 06, 199	6 Yes	In Compliance	Frye	Yes	Northampton	
92-1466		Coast Guard	Aug 08, 199	6 Yes	In Compliance	Frye	Yes	Northampton	
93-0273 Dani	el Hoffler		Aug 08, 199	6 Yes	In Compliance	Frye	Yes	Northampton	
93-0165 Otis	Pike		Aug 15, 199	6 Yes	In Compliance	Knowles	Yes	Northumberland	
95-0863		Bay Quarter Shores, In	Aug 15, 199	6 Yes	In Compliance	Knowles	Yes	Northumberland	
91-1474	•	Warwick Yacht & Cou	Aug 16, 199	06 Yes	Unable to Determine	Gardner	Yes	Newport News	Only one side of the riprap was complete.  Left over scraps were put in front of the other boatshed. The dredging was done under another permit.

Appl. #	Name	Company	Inspection Date	Complete	Degree of ed . Compliance	Inspector	Pictures Taken	Locality	Comments
93 <b>-</b> 0398 John	Green		Aug 16, 1996	Yes	Moderate Compliance	Gardner	Yes	York	
96-0106 D	Williams		Aug 16, 1996	Yes	In Compliance	Gardner	Yes	York	
92-1685 Willia	Berry, Jr.		Aug 16, 1996	5 No		Gardner	No	Norfolk	There is no evidence that the buoy was ever placed.
93-1134 Alan	Banks		Aug 16, 1996	6 Yes	In Compliance	Gardner	Yes	Newport News	The tide was high but I was able to estimate that the project was in compliance. The groins and the steps were placed in the correct position. Based upon my conversation with the engineer we felt the project was in compliance
95-0111 John	Wray, Jr.		Sep 03, 1996	Yes	In Compliance	Woodward	Yes	Lancaster	Not trapping much sand yet, downstream groin cell still full
93-0170 Ruth	Staley		Sep 03, 1996	Yes	In Compliance	Woodward	Yes	Lancaster	
92-1088 C	Baldwin, et al		Sep 03, 1996	Yes	In Compliance	Woodward	Yes	Lancaster	No spur installed in the upstream groin
3-0079 Collin	Smither		Sep 03, 1996	Yes	In Compliance	Woodward	Yes	Lancaster	
92-1712 Charle	s Braun		Sep 05, 1996	Yes	In Compliance	Woodward	Yes	Lancaster	
96-0778 Anne	Hyers		Sep 06, 1996	Yes	In Compliance	Knowles	Yes	Northumberland	
96-0971 J	Fox		Sep 11, 1996	Yes	In Compliance	Knowles	Yes	Northumberland	
96-0609 T	Riner		Sep 11, 1996	Yes	In Compliance	Woodward	Yes	Northumberland	
94-0728 Willia	Farinholt		Sep 13, 1996	Yes	In Compliance	Neikirk	Yes	Gloucester	Bulkhead was constructed, but the pier and groin were not. The property has since been sold.

Attachment H



## COMMONWEALTH of VIRGINIA

George Allen Governor

Becky Norton Dunlop Secretary of Natural Resources Marine Resources Commission

P. O. Box 756

2600 Washington Avenue Newport News, Virginia 23607-0756

October 15, 1996

William A. Pruitt Commissioner

<u>iorandi</u> To:	<u>im</u> 							
From:	Courtney Gardner, Habitat Management Division							
ubject:	Permit No.: Project Description:							
	The work authorized by the above-referenced permit is to be completed by In order that we know the final disposition of your project, we would appreciate your completing and returning this form as soon as possible.							
,	[] This project was completed in accordance with VMRC permit specifications on							
	[] This project has been abandoned.							
	[] This project has not been completed and I hereby request an extension of time to, for the following reason(s):							
-								
	Permittee's Signature							